

SR 26 over Salamonie River, Bridge No. 026-38-03430A (NBI 7040) Project

HISTORIC PROPERTY REPORT

**Portland, Wayne Township, Jay County, Indiana
Des. No. 1600828**

November 2020



Prepared for:
USI Consultants, Inc.
8415 E 56th Street
Indianapolis, IN 46216

By:

Handwritten signature of Karen Wood.

Karen Wood
Environmental and Cultural Resource Manager
SJCA, Inc. (Green 3, LLC)
Historic Fountain Square
1104 Prospect Street
Indianapolis, IN 46203



Management Summary

This report documents the identification and evaluation efforts for properties included in the Area of Potential Effects (APE) for the SR 26 over Salamonie River, Bridge No. 026-38-03430A (NBI 7040) Project, in Portland, Wayne Township, Jay County, Indiana (Des. No. 1600828). Above-ground resources located within the project APE were identified and evaluated in accordance with Section 106, National Historic Preservation Act (NHPA) of 1966, as amended, and the regulations implementing Section 106 (36 CFR Part 800).

As a result of the NHPA, as amended, and CFR Part 800, federal agencies are required to take into account the impact of federal undertakings upon historic properties in the area of the undertaking. Historic properties include buildings, structures, sites, objects, and/or districts that are eligible for or listed in the National Register of Historic Places (National Register). As this project is receiving funding from the Federal Highway Administration (FHWA), it is subject to a Section 106 review.

The APE contains one property listed or previously determined eligible for inclusion in the NRHP: Bridge No. 026-38-03430A (NBI 7040).

The APE contains no other properties that are recommended eligible for listing in the NRHP.



A Phase Ia Archaeological Literature Review and Reconnaissance Survey for the Proposed Rehabilitation of the State Road 26 Bridge over the Salamonie River (Des 1600828) in the City of Portland, Wayne Township, Jay County, Indiana

January 6, 2021

Prepared for:
USI Consultants
8415 East 56th Street
Indianapolis, Indiana 46216



Christopher Jackson, M.S., RPA
Archaeologist, Historian/QP
SJCA, Inc.
Historic Fountain Square
1104 Prospect Street
Indianapolis, IN 46203

p. 317.634.4110

f. 866.422.2046

e. cjackson@sjcainc.com

INTERPRETATIONS OF THE FINDINGS INTO A REGIONAL CONTEXT

One archaeological site (12-Ja-700) was documented by this investigation. The site was a prehistoric isolated find located on a bluff overlooking the Salamonie River. Because the artifact was non-diagnostic, the cultural/temporal association of the site could not be determined. Since the site is an isolated find, it can be inferred that the site was a small camp that would have been inhabited for a brief period.

This interpretation of the site would fit with the archaeological record that is expressed in Table 1. Those sites with a prehistoric component were comprised of small lithic scatters or isolated finds in which the occupation would have been brief. These sites probably represent small hunting camps, and/or sites in which the main activity was gathering seasonal floral resources.

SUMMARY AND CONCLUSIONS

In June 2019, USI Consultants contracted SJCA, Inc. (formerly Green 3, LLC), to conduct a Phase Ia archaeological records review and reconnaissance survey for the proposed rehabilitation of the SR 26 bridge over the Salamonie River (Des 1600828) in Jay County. The proposed project, which is located just east of the City of Portland, is in the northeastern quarter of the southwestern quarter of the southeastern quarter, as well as the southeastern quarter of the northwestern quarter of the northeastern quarter of Section 21, Township 23 North, Range 14 East, Wayne Township.

The survey area (area examined by this investigation) measured 1,050 feet in length and a maximum width of 145 feet. The survey area encompassed 3.2 acres.

The purpose of this project is to restore the SR 26 bridge that crosses over the Salamonie River to a satisfactory condition and increase the safe carrying capacity from the current 28 tons to 36 tons. The need for the project is that the existing bridge does not meet current INDOT design criteria for capacity or shoulder width. Right-of-way will be acquired for this project.

The records review indicated that the SR 26 right-of-way section of the survey area was examined in 2008 as part of the SR 26 Pavement Replacement project that was conducted by the Cultural Resources Section of INDOT. The study determined that the right-of-way was disturbed (Greenlee 2008). In 2020, a geophysical investigation was undertaken by INDOT CRO of an unnamed cemetery that is just north of the Northwestern Quarter of the survey area. Data obtained from the INDOT CRO investigation determined that it is highly likely that graves are present in the cemetery. It was recommended that the proposed project should avoid the cemetery (Coon 2020).

No archaeological sites have been recorded in the survey area, or immediately

adjacent to it. A historic property survey of the project area determined that the bridge was eligible for listing on the NRHP (Wood 2020).

The field investigation documented one site (12-Ja-700), which was a prehistoric isolated find that was on a bluff in the Southwestern Quarter. Based on the data obtained from the field investigation, it is recommended that the site is not eligible for listing on the NRHP under Criterion D.

No further archaeological work should be undertaken on site 12-Ja-700.

SR 26 over the Salamonie River



Location:	County	Road	Over	Number	Other Location Information
	Jay	SR 26	Salamonie River		0.78 miles east of US 27 junction at the east edge of the City of Portland

	Owner	Length	Width	Year Built	Type
	INDOT	154.7ft	29ft	1941	Steel Parker Through Truss
	Builder:	Yost Brothers		Status:	Pending
Statistics:	Current Load Rating: H-Inventory 16 tons, HS-Inventory 28 tons, HS-Operating 46 tons.Rehabilitated in 1979 with replacement of the deck, mudwalls, diaphragms, approach slabs, bridge railing, approach guardrail, and expansion joints. Bridge was cleaned and painted. Abutments were repointed. This single-span steel Parker truss was built in 1941. The bridge is eligible for listing in the National Register of Historic Places, but is not select for preservation, per the Programmatic Agreement Regarding Management and Preservation of Indiana's Historic Bridges. The status of the bridge is currently "pending," which means that its future is currently unknown as the Section 106 historic review process is on-going. Depending on the outcome of Section 106 consultation, interested parties may be able to acquire the bridge. INDOT is now accepting proposals for the rehabilitation and reuse, or the storage and future reuse of the bridge. Proposals will also be accepted for the salvage of elements that may be stored for future repair of similar historic bridges.				
Comments:					

Contact:	Name	E-mail	Address	Phone
	John Handke	j.(mailto:ebiggio@bfsengr.com)handke@usiconsultants.com	8415 E 56th St. Indianapolis, IN 46216	(317) 544-4996

Marketing Bridge Signs located on Bridge No. 026-38-03430A



Facing east toward marketing sign and bridge



Facing west toward marketing sign and bridge

The Indianapolis Star

130 South Meridian Street
Indianapolis, IN 46225
Marion County, Indiana

IND DEPT OF TRANSPORTATION

Federal Id: 06-1032273

Account #:INI-1967
Order #:0004098388
of Affidavits: 2

Total Amount of Claim:\$60.56
This is not an invoice

IND DEPT OF TRANSPORTATION
ATTN Richard Phillabaum
100 N SENATE AVE RM N 642
INDIANAPOLIS, IN 46204

PUBLISHER'S AFFIDAVIT

**STATE OF WISCONSIN,
County Of Brown**

} **SS:**

Personally appeared before me, a notary public in and for said county and state, the undersigned

I, being duly sworn, say that I am a clerk for THE INDIANAPOLIS NEWSPAPERS a DAILY STAR newspaper of general circulation printed and published in the English language in the city of INDIANAPOLIS in state and county of Marion, and that the printed matter attached hereto is a true copy, which was duly published in said paper for 1 times., the dates of publication being as follows:

The insertion being on the 03/09/2020

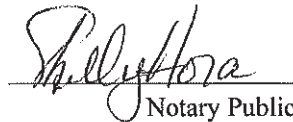
Newspaper has a website and this public notice was posted in the same day as it was published in the newspaper.

Pursuant to the provisions and penalties of Ch. 155, Acts 1953,

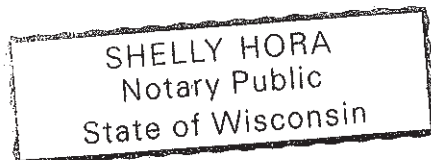
I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

Date: 3/23, 2020 Title: Clerk

Subscribed and sworn to before me this 23 day of March, 2020


Notary Public

Notary Expires: 8-25-23



(Governmental Unit)

To: INDIANAPOLIS STAR

County, Indiana

Indianapolis, IN

PUBLISHER'S CLAIM

48 lines, 2 columns wide equals 96 equivalent lines at \$0.63 per line @ 1 days, \$60.56

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Ad #: 0004098388

Charge for proof(s) of publication \$0.00

DATA FOR COMPUTING COST

Width of single column 9.5 ems

Number of insertions 1

Size of type 7 point

TOTAL AMOUNT OF CLAIM \$60.56

Claim No. _____ Warrant No. _____

IN FAVOR OF

The Indianapolis Star

Indianapolis, IN

Marion County

130 S. Meridian St. Indianapolis, IN 46225

\$ _____

On Account of Appropriation For

FED. ID

#06-1032273

Allowed _____, 20____

In the sum of \$ _____

I certify that the within claim is true and correct; that the services there-in itemized and for which charge is made were ordered by me and were necessary to the public business.

I have examined the within claim and hereby certify as follows:

That it is in proper form.

This it is duly authenticated as required by law.

That it is based upon statutory authority.

That it is apparently (correct)
(incorrect)

Public Notice
Designation No. 1600828

The Indiana Department of Transportation (INDOT) is offering Bridge 026-38-03430A carrying SR 26 over the Salamonie River in Jay County to interested responsible parties. The bridge is eligible for the National Register of Historic Places and has been determined "Non-Select" for preservation per the Programmatic Agreement Regarding Management and Preservation of Indiana's Historic Bridges. The status of this bridge is currently "pending," which means that its future is currently unknown as the Section 106 historic review process is on-going. Depending on the outcome of Section 106 consultation, interested parties may be able to utilize the bridge.

The bridge is a 150-foot-long one-span steel Parker through truss built in 1941. The bridge has a clear roadway width of 28 ft. on a zero-degree skew, featuring a concrete cast-in-place deck with non-standard steel bridge railings. A photo and general information about the bridge can be viewed at the following website: <http://www.in.gov/indot/2532.htm>. Additional information about the bridge is available for review by contacting the person listed below.

INDOT is now accepting proposals for the rehabilitation and reuse, or the storage and future reuse of the bridge. Proposals will also be accepted for the salvage of elements of the bridge. Any proposals should be received within the next six months. Funding of any rehabilitation, reuse, storage, dismantling, reconstruction, salvage, etc. of this bridge would be the responsibility of the new owner. Interested parties should submit a written proposal for reuse to the contact below as soon as possible: Jeremy Greene, INDOT Project Manager, 32 South Broadway St., Greenfield, IN 46140, Office: (317) 467-3472, Email: JeGreene@indot.in.gov.

INI - 3/9/2020 - 0004098388

hspaxlp

Indiana Dept of Transportation

The Commercial Review

Designation No 1600828

INDOT Historic Bridge Marketing Website

To: The Graphic Printing Co., Inc.

(Governmental Unit)

P.O. Box 1049

Jay County, Indiana

Portland, IN 47371

PUBLISHER'S CLAIM

Public Notice

Designation No. 1600828

The Indiana Department of Transportation (INDOT) is offering Bridge (28-38-03430A) carrying SR 26 over the Salamonie River in Jay County to interested responsible parties. The bridge is eligible for the National Register of Historic Places and has been determined "Non-Select" for preservation per the Programmatic Agreement Regarding Management and Preservation of Indiana's Historic Bridges. The status of this bridge is currently "pending," which means that its future is currently unknown as the Section 108 historic review process is on-going. Depending on the outcome of Section 106 consultation, interested parties may be able to utilize the bridge.

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: has a website and this public notice was posted on the same day as it was published in the

er.

..... Newspaper has a website, but due to technical problem or error, public notice was posted on.....

..... Newspaper has a website but refuses to post the public notice.

March 10, 2020

Date: _____

Tonia C. Hardy

Title: Business Manager

Appendix E

Red Flag Investigation



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N642
Indianapolis, Indiana 46204

PHONE: (317) 232-5113
FAX: (317) 233-4929

Eric Holcomb, Governor
Joe McGuinness,
Commissioner

Date: March 19, 2020

To: Site Assessment & Management
Environmental Policy Office - Environmental Services Division
Indiana Department of Transportation
100 N Senate Avenue, Room N642
Indianapolis, IN 46204

From: Laney Walstra
Greenfield District
1104 Prospect St.
Indianapolis, Indiana
laney@green3studio.com

Re: RED FLAG INVESTIGATION
DES 1600828, State Project
Bridge Project
SR 26 over Salamonie River, 0.78 miles East of US 27
Jay County, Indiana

PROJECT DESCRIPTION

Brief Description of Project: The Federal Highway Administration (FHWA) and Indiana Department of Transportation (INDOT) intend to proceed with a bridge project on SR 26 over Salamonie River in Jay County, approximately 0.78 miles East of US 27. The existing structure is a Steel Parker Through Truss bridge with a 28'-0" bridge roadway width and two travel lanes. The current preferred alternative is a full bridge replacement to a continuous composite prestressed concrete bulb tee beam bridge with three spans. Riprap will be placed at the end bents, and piers. Two piers will be added in the replacement. Approach work will occur, with shoulder paving, and guardrail work. Regrading of ditches may occur due to erosion.

Bridge and/or Culvert Project: Yes ☒ No ☐ Structure # 026-38-03430 A (NBI 007040)

If this is a bridge project, is the bridge Historical? Yes ☒ No ☐ , Select ☐ Non-Select ☒

(Note: If the project involves a historical bridge, please include the bridge information in the Recommendations Section of the report).

Proposed right of way: Temporary ☒ # Acres TBD Permanent ☒ # Acres TBD , Not Applicable ☐

Type of excavation: 250 CYD of common excavation, 500 CYD of waterway excavation, and 720 CYD of fill

Maintenance of traffic: Maintenance of Traffic is anticipated to be a full closure with a detour.

Work in waterway: Yes ☒ No ☐ Below ordinary high water mark: Yes ☒ No ☐

State Project: ☒ LPA: ☐

Any other factors influencing recommendations: Plans have not been finalized at this time.

INFRASTRUCTURE TABLE AND SUMMARY

Infrastructure			
Religious Facilities	1*	Recreational Facilities	2
Airports ¹	1	Pipelines	N/A
Cemeteries	1	Railroads	N/A
Hospitals	N/A	Trails	6
Schools	2	Managed Lands	N/A

Religious Facilities: One* (1) religious facility is located within the 0.5 mile search radius. Immaculate Conception Catholic Church (506 E Walnut St) is not mapped on the GIS data and is located approximately 0.42 mile northwest of the project area. No impacted is expected.

Recreational Facilities: Two (2) recreational facilities are located within the 0.5 mile search radius. The nearest facility, East Elementary School, is adjacent to the project area. Coordination with East Elementary School will occur.

Airports: No infrastructure resources were identified within the 0.5 mile search radius. Although not located within the 0.5 mile search radius, one (1) public-use airport, Portland Municipal, is located within 3.8 miles (20,000 feet) of the project area. The public airport is located approximately 1.69 miles northwest of the project area; therefore, early coordination with INDOT Aviation will occur.

Cemeteries: One (1) cemetery is located within the 0.5 mile search radius. Unknown Cemetery (SHAARD ID: CR-38-68) is within the project area. A Cemetery Development Plan may be required since this project is within 100 feet of the cemetery. Coordination with INDOT Cultural Resources will occur.

Trails: Six (6) trail segments are located within the 0.5 mile search radius. One (1) trail (Additional Nature Trails, Completed) is located adjacent to the project area. Coordination with Portland Parks and Recreation Department will occur.

Schools: Two (2) schools are located within the 0.5 mile search radius. East Elementary School (705 E. Tallman Street) is adjacent to the project area. Coordination with East Elementary School will occur.

Note to Reader: The trail named Additional Nature Trails, Completed is mapped incorrectly and is actually located in Hudson Family Park. Based on coordination with INDOT SAM, because no substantive changes to this report are needed, an addendum is not necessary.

WATER RESOURCES TABLE AND SUMMARY

Water Resources			
NWI - Points	N/A	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	7
Canal Structures – Historic	N/A	Lakes	6
NPS NRI Listed	N/A	Floodplain - DFIRM	5
NWI-Lines	8	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	N/A	Sinkhole Areas	N/A
Rivers and Streams	7	Sinking-Stream Basins	N/A

NWI-Wetlands: Seven (7) NWI-wetlands are located within the 0.5 mile search radius. Three wetlands are located within or adjacent to the project area. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

Lakes: Six (6) lakes are located within the 0.5 mile search radius. The nearest lake is located approximately 0.02 mile north of the project area. No impacts are anticipated.

Floodplain: Five (5) floodplain polygons are mapped within the 0.5 mile search radius. The closest floodplain is associated with the Salamonie River and is located within the project area. Coordination with INDOT ES Ecology and Waterway Permitting will occur.

NWI-Lines: Eight (8) NWI-lines are located within the 0.5 mile search radius. The nearest NWI-line is associated with the Salamonie River located within the project area. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

Rivers and Streams: Seven (7) river and stream segments are located within the 0.5 mile search radius. The nearest stream is the Salamonie River and is located within the project area. A Waters of the US Report will be prepared, and coordination with INDOT Ecology and Waterway Permitting will occur.

URBANIZED AREA BOUNDARY SUMMARY

Urbanized Area Boundary (UAB): This project lies within the Portland UAB; however, a Rule 13 Permit from IDEM has not been issued. No further coordination is necessary at this time.

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

Mining/Mineral Exploration			
Petroleum Wells	N/A	Mineral Resources	N/A
Mines – Surface	N/A	Mines – Underground	N/A

Explanation: No mining and mineral resources were identified within the 0.5 mile search radius.

HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

Hazardous Material Concerns			
Superfund	N/A	Manufactured Gas Plant Sites	N/A
RCRA Generator/ TSD	N/A	Open Dump Waste Sites	N/A
RCRA Corrective Action Sites	N/A	Restricted Waste Sites	N/A
State Cleanup Sites	N/A	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	N/A
Underground Storage Tank (UST) Sites	1	Confined Feeding Operations (CFO)	N/A
Voluntary Remediation Program	N/A	Brownfields	1
Construction Demolition Waste	N/A	Institutional Controls	N/A
Solid Waste Landfill	N/A	NPDES Facilities	2
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	3
Leaking Underground Storage (LUST) Sites	1	Notice of Contamination Sites	N/A

Underground Storage Tank (UST): One (1) Underground Storage Tank (UST) is within the 0.5 mile search radius. East Elementary School (705 Tallman Ave, and AI 20603) is located approximately 0.16 mile west of project location. Documentation on the IDEM Virtual File Cabinet (VFC) indicates that one UST was in use 1989. No impact is expected.

Leaking Underground Storage (LUST) Site: One (1) Leaking Underground Storage Tank (LUST) is within the 0.5 mile search radius. Coco-Cola Bottling (510-520 E Arch St, AI 16880) is located approximately 0.49 mile northwest of project site. IDEM issued a No Further Action Approval Determination Pursuant to Risk Integrated System of Closure on March 13, 2012. No impact is expected.

Brownfields: One (1) Brownfield is within the 0.5 mile search radius. Joy Property (420-422 E Water St, AI 106586) is located approximately 0.45 mile west of project site. No impact is expected.

NPDES Facilities: Two (2) NPDES Facilities are located within the 0.5 mile search radius. The nearest facility, SR-26 NPDES Facility (SR 26 & US HWY 26, Permit Number: INR10J274), is located approximately 0.35 mile west of the project site. No impact is expected.

NPDES Pipe Locations: Three (3) NPDES Pipe Locations are located within the 0.5 mile search radius. Portland WWTP has one inactive and two active NPDES Pipe Locations. The nearest location is approximately 0.26 mile southwest to the project site. No impact is expected.

ECOLOGICAL INFORMATION SUMMARY

The Jay County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached with ETR species highlighted. A preliminary review of the Indiana Natural Heritage Database by INDOT Environmental Services did not indicate the presence of ETR species within the 0.5 mile search radius.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The August 20, 2019 inspection for Bridge 026-38-03430 A states that no evidence of bats was seen or heard

under the bridge). The range-wide programmatic consultation for the Indiana bat and Northern long-eared bat will be completed according to "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects."

RECOMMENDATIONS SECTION

HISTORIC RESOURCES: This project involves a non-select historic bridge located on SR 26 over the Salamonie River (Structure Number: 026-38-03430 A, NBI: 007040). Coordination with INDOT CRO will occur.

INFRASTRUCTURE:

Recreational Facilities: Two (2) recreational facilities are located within the 0.5 mile search radius. East Elementary is adjacent to the project area. Coordination with East Elementary School will occur.

Airports: Although not located within the 0.5 mile search radius, Portland Municipal a public-use airport, is located within 3.8 miles (20,000 feet) of the project area. The public airport is located approximately 1.69 miles Northwest of the project area; therefore, early coordination with INDOT Aviation will occur.

Cemeteries: Unknown Cemetery (SHAARD ID: CR-38-68) is adjacent to the project area. A Cemetery Development Plan may be required since this project is within 100 feet of the cemetery. Coordination with INDOT Cultural Resources will occur.

Trails: One (1) trail (Additional Nature Trails, Completed) is located adjacent to the project area. Coordination with Portland Parks and Recreation Department will occur.

Schools: One (1) school is located within the 0.5 mile search radius. East Elementary is adjacent to the project area. Coordination with East Elementary School will occur.

WATER RESOURCES:

The presence of the following water resources will require the preparation of a Waters of the US Report and coordination with INDOT ES Ecology and Waterway Permitting:

- Three (3) wetlands are located within and adjacent to the project area.
- One (1) stream segment, Salamonie River, flows through the project area.
- One (1) NWI-line, Salamonie River, flows through the project area.
- This project is located within the floodplain of the Salamonie River (coordination only).

URBANIZED AREA BOUNDARY: N/A

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: N/A

ECOLOGICAL INFORMATION: Coordination with USFWS and IDNR will occur. The range-wide programmatic consultation for the Indiana bat and Northern Long-eared bat will be completed according to "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects."

Nicole Fohey-
Breting

Digitally signed by
Nicole Fohey-Breting
Date: 2020.03.19
13:49:13 -04'00'

INDOT Environmental Services concurrence: _____ (Signature)

www.in.gov/dot/
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Prepared by:
Laney Walstra
Ecologist
Green 3, LLC

Graphics:

Note to Reader: the Site Location Map in
Appendix B-2 was included in this report; it was
deleted here to avoid duplication.

SITE LOCATION: YES

INFRASTRUCTURE: YES

WATER RESOURCES: YES

URBANIZED AREA BOUNDARY: YES

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: YES

Red Flag Investigation - Infrastructure

SR 26 over Salamonie River, 0.78 miles East of US 27

Des. No. 1600828 , Bridge Project

Jay County, Indiana



Sources: 0.1 0.05 0 0.1 Miles

Non Orthophotography
Data - Obtained from the State of Indiana Geographical Information Office Library

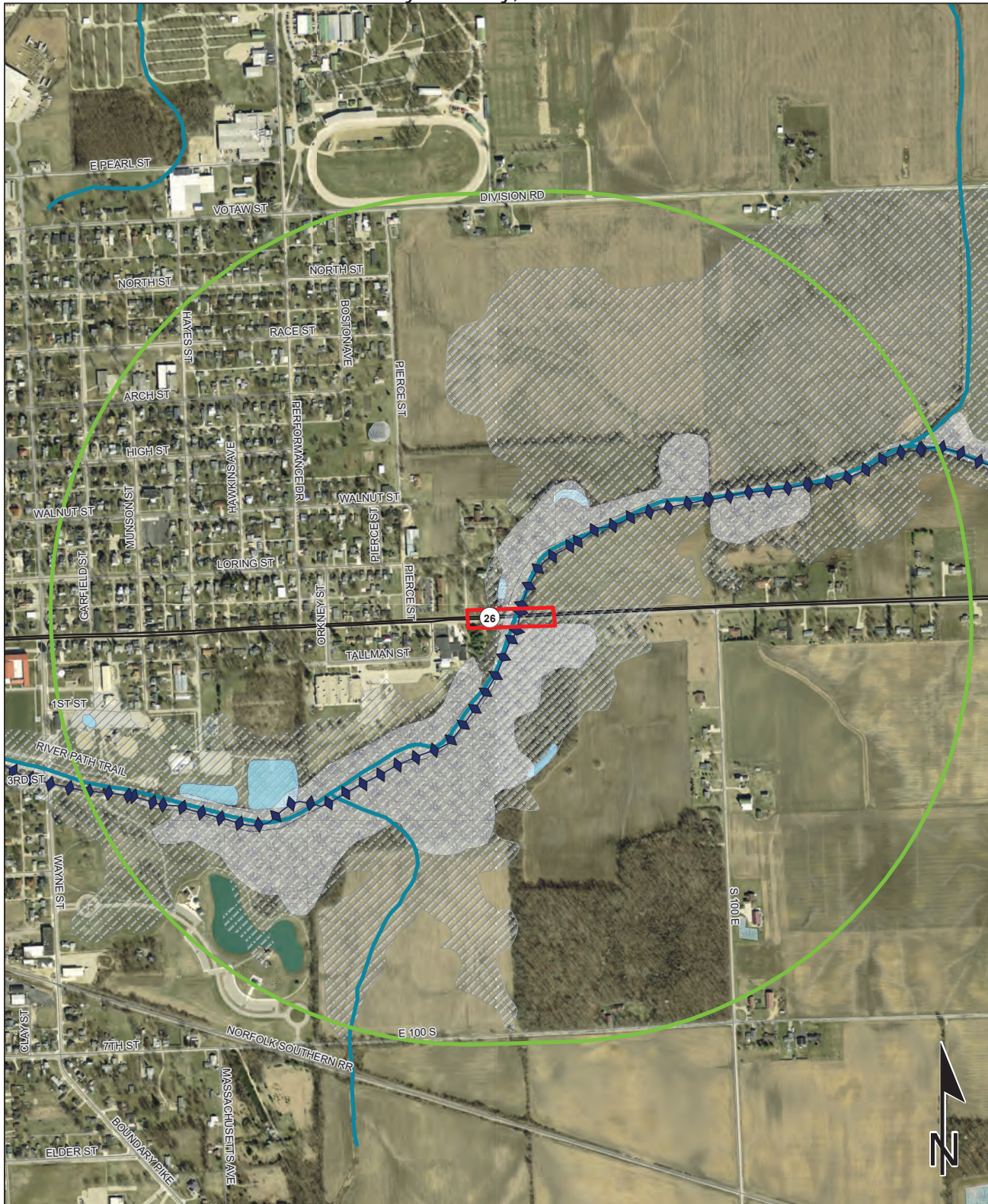
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)

Map Projection: UTM Zone 16 N **Map Datum:** NAD83

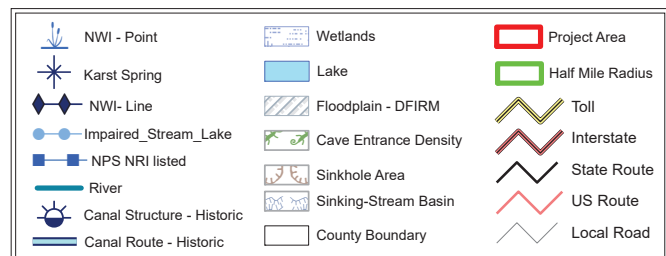
This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

Red Flag Investigation - Water Resources
 SR 26 over Salamonie River, 0.78 miles East of US 27
 Des. No. 1600828 , Bridge Project
 Jay County, Indiana



Sources:
Non Orthophotography
 Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83
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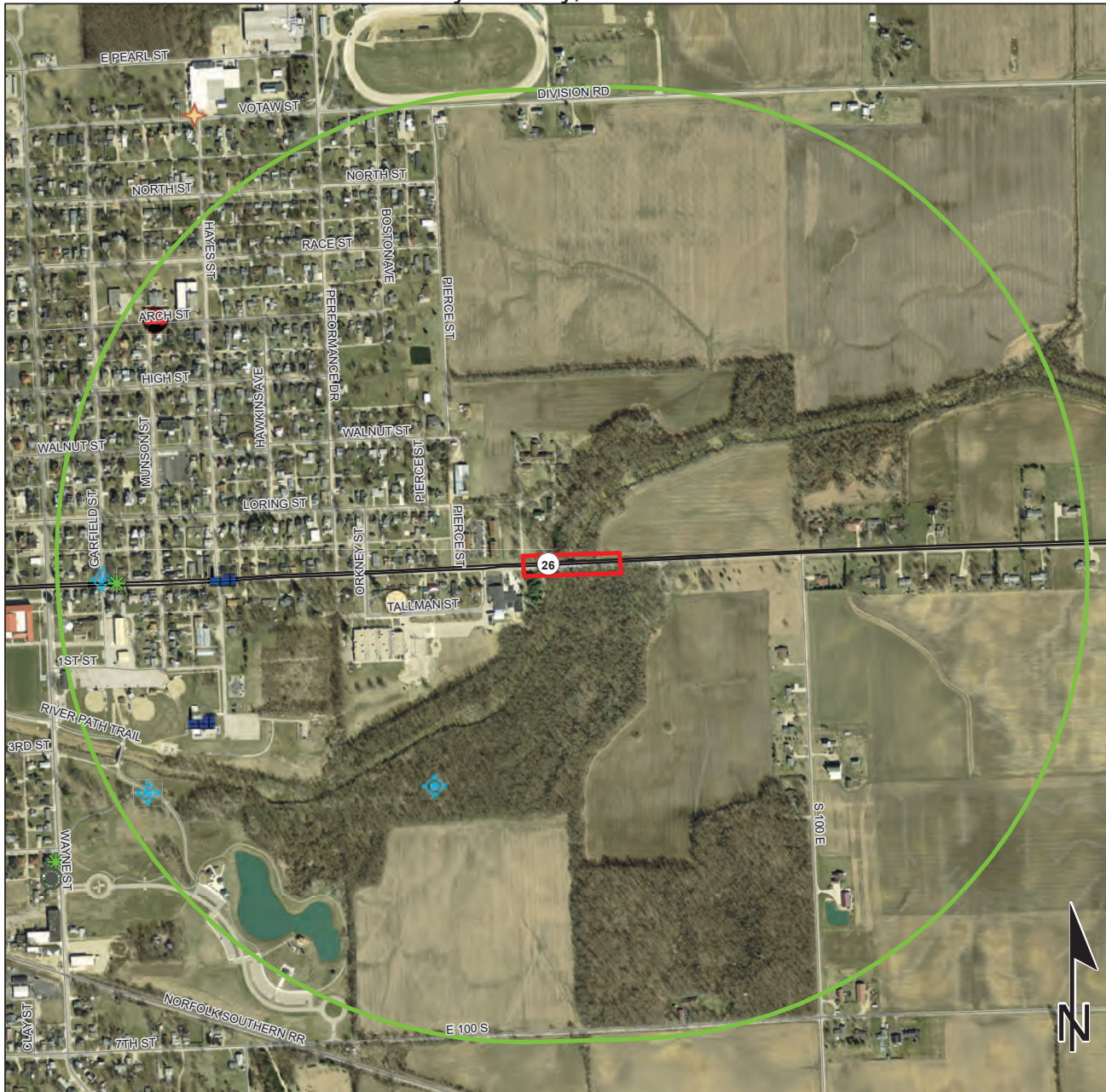
Red Flag Investigation - Urbanized Area Boundary
SR 26 over Salamonie River, 0.78 miles East of US 27
Des. No. 1600828 , Bridge Project
Jay County, Indiana



Sources:
Non Orthophotography
Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

Red Flag Investigation - Hazardous Material Concerns
 SR 26 over Salamonie River, 0.78 miles East of US 27
 Des. No. 1600828 , Bridge Project
 Jay County, Indiana



	Brownfield		RCRA Generator/TSD		Institutional Controls
	RCRA Corrective Action Sites		Restricted Waste Site		County Boundary
	Confined Feeding Operation		Septage Waste Site		Project Area
	Notice_Of_Contamination		Solid Waste Landfill		Half Mile Radius
	Construction/Demolition Site		State Cleanup Site		Toll
	Infectious/Medical Waste Site		Superfund		Interstate
	Leaking Underground Storage Tank		Tire Waste Site		State Route
	Manufactured Gas Plant		Underground Storage Tank		US Route
	NPDES Facilities		Voluntary Remediation Program		Local Road
	NPDES Pipe Locations		Waste Transfer Station		
	Open Dump Waste Site				

0.1 0.05 0 0.1
 Miles

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

Appendix E-10

Sources:
Non Orthophotography
Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83

County: Jay

Species Name	Common Name	FED	STATE	GRANK	SRANK
Mollusk: Bivalvia (Mussels)					
Epioblasma triquetra	+	01	+1	2 3	+#
Pleurobema clava	4 5-.67!55	01	+1	2#2*	+#
Ptychobranchus fasciolaris	89:,!;67!55		++4	2<2'	+*
Toxolasma lividus	Ä==>5!"09559>-?	4	++4	23@	+*
Insect: Odonata (Dragonflies & Damselflies)					
Enallagma divagans	A-=B-\$96!"C5-!?		+D	2'	+3
Macromia wabashensis	E Ä.Ä67"D9F#-96#!=		+1	2#23@	+#
Reptile					
Clonophis kirtlandii	89=?5Ä,:G6ÄH.H!		+1	2*	+*
Thamnophis proximus proximus	E!6?!=,"D9..\$,",+,ÄH!		++4	2'A'	+3
Bird					
Botaurus lentiginosus	I J !=Ä,"C9?# ,		+1	2'	+*C
Circus hudsonius	L \$=?7=,"MÄ=9!=		+1	2'	+*
Cistothorus platensis	+!: !"E=!		+1	2'	+3C
Haliaeetus leucocephalus	CÄ5:"1Ä 5!		++4	2'	+*
Ixobrychus exilis	0! Ä6?"C9?# =,		+1	2'	+3C
Nycticorax nycticorax	C5ÄKHNK=\$O,!:"L9 7?N7!=\$,		+1	2'	+#C
Tyto alba	CÄ=,P O5		+1	2'	+*
Mammal					
Mustela nivalis	0!Ä6?"E!Ä6!5		++4	2'	+*Q
Myotis sodalis	R : 9Ä,Ä"CÄ?	01	+1	2*	+#
Vascular Plant					
Carex timida	A9J9:"+!: !		+1	2*2<	+#
Dactylorhiza viridis	0\$, N.=ÄK?"2=!!,"P=K796		+1	2'	+#
Panax quinquefolius	IJ!=9KÄ,"29,6!,		E0	232<	+3
Viola pedatifida	Ä=Ä9=99\$5!35!?		+A	2'	+*
High Quality Natural Community					
Forest - flatwoods central till plain	4!,?=Ä5"A955"Ä5Ä9,"T5Ä?O\$\$:6		+2	23	+*
Forest - floodplain mesic	U!69K"T5\$\$:>5Ä9,"T\$=!6?		+2	23Q	+#
Forest - upland dry-mesic Central Till Plain	4!,?=Ä5"A955"Ä5Ä9,"V=;NJ!69K" W>5Ä,:!"T\$=!6?		+2	2LD	+*
Prairie - dry-mesic	V=;NJ!69K"Ä=Ä9=9!		+2	23	+*
Prairie - mesic	U!69K"Ä=Ä9=9!		+2	2*	+*
Prairie - wet	E!?"Ä=Ä9=9!		+2	23	+#
Wetland - marsh	UÄ=67		+2	2W	+<

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A796":Ä?Ä"96", \$?"?7!!=16-5?"\$%"K\$J=>!7!69F!"K\$,?," 2DIL8Y		25\$.Ä5"M!=9?Ä!"DÄ,HY"2#"Z"K=979KÄ55;"9J>!=95!"25\$.Ä55!="95!:" 5\$.Ä55;"!23"Z"=Ä!="\$%=-,K\$J\$,,"
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		5\$.Ä55;"!2Q"Z",-=Ä,HI:"!2"Z"!/?9,K?!"["@/Z",K!=?Ä9, -=Ä,HI:"Ä55;Z!9K"6,-9?"=Ä,H
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		2<"Z"O9:16>!=Ä:"Ä., "Ä., -Ä,?"9,6?Ä?!" -?"O9?7"5\$, "?!=J"K\$K+2"Z"6?Ä?!"69, 9%9KÄ,?!"M"Z"79678=9KÄ5"9,"
		6?Ä?!"!+3"Z"6?Ä?!"!/?9=>Ä?!,["C"Z",=!!:9, "6?Ä?6-!+Q"Z"["ÄÄÄZ",-=Ä,HI:"!+L!Z"\$%,=!!:9, "6?Ä?6-
		-=Ä,HI:

Subject: RE: Des. No. 1600828 S.R. 26 over Salamonie River
Date: Wednesday, April 7, 2021 at 2:47:03 PM Eastern Daylight Time
From: Foheybreting, Nicole K
To: Erin Mulryan
Attachments: image023.png, image024.png, image025.png, image026.png, image027.png, image028.png, image029.png, image030.png, image031.png, image032.png, image033.png, image034.png, image035.png, image036.png, image037.png, image038.png, image039.png, image040.png, image041.png, image042.png, image043.png, image044.png, image045.png, image046.png, image047.png, image048.png, image049.png, image050.png, image051.png, image052.png, image053.png, image054.png, image055.png, image056.png, image057.png, image058.png.

Greetings Erin –

Thank you for the update and the clarification on the trail segment that is mapped adjacent to the project area on GIS. It sounds as though the mapped trail segment is not a concern (nor is it adjacent) to the project area and, since coordination already occurred in 2020, it does not sound as though an RFI Addendum is needed. A note in the CE clarifying the presence of the trail sounds appropriate.

I hope this helps. Please let me know if I can be of any additional assistance.
Thank you,
Nicole

M) Specialist



The Site Assessment and Management (SAM) Manual can be found at <https://www.in.gov/indot/4170.htm>

Be sure to refer to the updated information in the SAM Manual for document preparation and submission.

From: Erin Mulryan <emulryan@sjcainc.com>
Sent: Wednesday, April 07, 2021 2:25 PM
To: Foheybreting, Nicole K <NFoheyBreting@indot.IN.gov>
Subject: Re: Des. No. 1600828 S.R. 26 over Salamonie River

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Appendix F

Water Resources

WATERS DETERMINATION REPORT

**S.R. 26 OVER SALAMONIE RIVER
BRIDGE REPLACEMENT
DES. NO. 1600828
WAYNE TOWNSHIP, JAY COUNTY, INDIANA**

Prepared for:
USI Consultants, Inc.

April 2, 2020



Prepared by:

Metric Environmental, LLC

Complex Environment. Creative Solutions.

6971 Hillsdale Court
Indianapolis, IN 46256
Telephone: 317.207.4286
www.metricenv.com

WATERS OF THE U.S. DETERMINATION REPORT
S.R. 26 over Salamonie River
Bridge Replacement
Wayne Township, Jay County, Indiana
Des. No. 1600828
Prepared By: Cory Shumate, Metric Environmental, LLC
April 2, 2020

Date of Waters Field Investigation: August 28, 2019

Location:

Section 21; Township 23 North; Range 14 East
Portland, IN 7.5-minute USGS Topographic Quadrangles (**Exhibit 2**)
Wayne Township, Jay County, Indiana
12-Digit HUC Watershed: 051201020103
Latitude: 40.43258 Longitude: -84.96348

FEMA Flood Insurance Rate Map (FIRM):

One mapped floodplain is located within the project study limits (PSL). This floodplain was associated with Salamonie River and identified as Zone AE, an area subject to inundation by the 1 percent annual chance of flood. The FIRM map for this area is provided as **Exhibit 3**.

USGS National Hydrography Dataset (NHD) Information:

One mapped NHD flowline is located within the PSL, listed in the table below. The NHD Flowline map is provided in **Exhibit 3**.

Corresponding Feature	NDH Flowline Classification	Photo Nos.	USGS Blue line
Salamonie River	Artificial Path	25-38	Yes

National Wetlands Inventory (NWI) Information:

Five mapped NWI polygons are located within the PSL, listed in the table below. The NWI map is provided as **Exhibit 4**.

Symbol	Wetland Type	Location within PSL	Corresponding Feature
R2UBH	Riverine, Lower Perennial, Unconsolidated Bottom, Permanently Flooded	Central	Salamonie River
R2UBHx	Riverine, Lower Perennial, Unconsolidated Bottom, Permanently Flooded, Excavated	Central	

Symbol	Wetland Type	Location within PSL	Corresponding Feature
PFO1A	Palustrine, Forested, Broad-leaved Deciduous, Temporarily Flooded	Northcentral	Open Water 1
PFO1A	Palustrine, Forested, Broad-leaved Deciduous, Temporarily Flooded	Southcentral	None
PFO1A	Palustrine, Forested, Broad-leaved Deciduous, Temporarily Flooded	Eastern	Wetland A

Karst Feature Information:

No mapped karst features were found within 0.5 mi. of the PSL during the desktop review.

Soils:

According to the Natural Resources Conservation Service (NRCS) Soil Survey Geographic (SSURGO) Database for Jay County, Indiana, the PSL contained four mapped soil units, listed in the table below. The NRCS Soil Survey map is provided as **Exhibit 4**.

Symbol	Map unit name	Hydric Rating (%)
BIA	Blount-Glynwood, thin solum complex, 0 to 3 percent slopes	Hydric (5)
Ee	Eel clay loam, frequently flooded	Hydric (5)
GlgB2	Glynwood silt loam, ground moraine, 1 to 4 percent slopes, eroded	Hydric (3)
Pm	Pewamo silty clay, 0 to 2 percent slopes	Hydric (91)

Attached Documents:

Maps of the project area (**Exhibits 1-5**)

Photo Location Map (**Exhibit 6**)

Site Photographs

Wetland Determination Data Form(s)

Preliminary Jurisdictional Determination Form

Project Description:

The proposed project (Des. No. 1600828) includes replacement of the existing bridge (Bridge No. 026-38-03430 A/NIBI No. 007040), which carries S.R. 26 over Salamonie River in Wayne Township, Jay County, Indiana. The existing structure is a 150 ft. long span with a 28 ft. clear roadway width curb-to-curb. The proposed improvements include installation of a two-lane bridge that is a 3-span structure with a 30-ft. clear roadway width, subject to change upon further project design.

Field Reconnaissance:

The wetland determination field visit was conducted on October 28, 2019 by Zachary Root and Cory Shumate of Metric Environmental, LLC. The project study area received over an inch of rain between August 26, 2019 and August 27, 2019. The PSL consists of the area that has the potential to be impacted, based on the provided design scenario. This area was evaluated for the presence of wetlands and Waters of the United States. This investigation was conducted in accordance with the *1987 U.S. Army Corps of Engineers (USACE) Wetland Delineation Manual* and the *August 2010 Midwest Regional Supplement (version 2.0) Manual*.

A Location Map showing the project location is provided as **Exhibit 1**. The proposed project is located in central Jay County, Indiana, on S.R. 26, approximately 0.75 mi. east of the intersection of S.R. 26 and U.S. 27. The PSL extended approximately 1,700 ft. along S.R. 26, approximately 125 ft. north of S.R. 26 centerline, and approximately 65 ft. south of S.R. 26 centerline. An aerial map of sampling points and water features is provided as **Exhibit 5**. A photo location map is provided as **Exhibit 6** and site photographs are attached.

The site was investigated for evidence of hydrophytic vegetation, hydric soil, and wetland hydrology to determine if the project impacts wetlands and other Waters of U.S. The sampling point (SP) locations were chosen in possible wetland areas within the PSL. The upland areas consisted of deciduous forest, residential lawn, and agricultural crop field. Upland areas where sampling points were not taken, were investigated and determined to be upland due to upward sloping topography and/or presence of dominant upland vegetation. Eight sampling points were taken, recorded on the USACE Wetland Determination Data Forms and shown on **Exhibit 6**. The sampling points provided the following information:

Sampling Plot Data Summary Table

Plot #	Photo #s	Lat/Long	Hydrophytic Vegetation	Hydric Soils	Wetland Hydrology	Within Wetland
SP-A1	1-3	40.4325 -84.96183	Yes	Yes	Yes	Yes, Wetland A
SP-A2	4-6	40.43236 -84.96347	Yes	No	Yes	No, Wetland A Upland
SP-B1	7-9	40.4326 -84.96485	Yes	Yes	Yes	Yes, Wetland B
SP-B2	10-12	40.43265 -84.96484	No	No	No	No, Wetland B Upland
SP-1	13-15	40.43266 -84.96338	Yes	No	Yes	No
SP-2	16-18	40.43249 -84.96373	Yes	No	Yes	No
SP-3	19-21	40.43264 -84.9637	Yes	No	Yes	No

Plot #	Photo #s	Lat/Long	Hydrophytic Vegetation	Hydric Soils	Wetland Hydrology	Within Wetland
SP-4	22-24	40.43268 -84.96255	Yes	No	Yes	No

Wetlands:

Two wetlands were observed within the PSL. Descriptions of the wetlands and corresponding sampling points are provided below.

Wetland Summary Table

Wetland Name	Photo #s	Lat/Long	Cowardin Class	Total Area	Quality	Likely Water of the U.S.
				acres		
Wetland A	2, 3, 63, 66, 67	40.4325 -84.96178	PFO1A	0.128	Average	No
Wetland B	8, 9, 11, 12	40.4326 -84.96487	PSS1A	0.005	Poor	No

Wetland A (0.128 ac.) – PFO1A

Wetland A was classified as a Palustrine, Forested, Broad-Leaved Deciduous, Temporarily Flooded (PFO1A) wetland. This wetland is located in a drainage ditch within the floodplain of Salamonie River, south of S.R. 26 and east of Salamonie River. Wetland A likely receives stormwater drainage on a consistent basis during rain events. Wetland A does not directly abut a jurisdictional stream and should therefore be considered a Waters of the State. The boundaries of Wetland A were delineated by the lack of wetland vegetation and/or increased elevation. The east and west areas of Wetland A were separated by a 16-in. corrugated metal pipe (CMP) culvert. These were determined to be one wetland due to proximity and topography indicating that both areas shared a hydrologic connection. Reed canary grass (*Phalaris arundinacea*, FACW) dominated the western area of Wetland A and a mixture of reed canary grass (*Phalaris arundinacea*, FACW) and spotted touch-me-not (*Impatiens capensis*, FACW) dominated the eastern area of Wetland A. Wetland A was associated with a mapped PFO1A NWI polygon and was formed within Ee, GlgB2, and BIA mapped soil units, which are listed as 5 percent, 3 percent, and 5 percent hydric, respectively. Wetland A is adjacent to road and forest and likely receives run-off from both of these sources. While the wetland was forested and bordered a deciduous forest to the south, it was also dominated by reed canary grass (*Phalaris arundinacea*, FACW), an invasive plant species, in the herb stratum. These factors contribute to the conclusion that the wetland can support an average amount of wildlife or aquatic habitat, and therefore should be considered to be of average quality.

Sampling Point A1 (SP-A1) – Wetland A

SP-A1 was located at the toe of a hillslope in a drainage ditch south of S.R. 26 and east of Salamonie River. The dominant vegetation at this sampling point was black walnut (*Juglans nigra*, FACU) in the tree stratum and reed canary grass (*Phalaris arundinacea*, FACW) in the herb stratum. This met the hydrophytic vegetation indicator of prevalence index (2.33). To a depth of 20 in., the soils in the test pit were silty clay loam. From 0 to 11 in., the soil exhibited a matrix color of 10YR 3/1 (85 percent) with 5YR 3/4 (15 percent) prominent redox concentrations along pore linings. From 11 to 20 in., the soil exhibited a matrix color of 10YR 3/1 (80 percent) with 10YR 5/8 (15 percent) prominent redox concentrations in the matrix and 5YR 3/4 (5 percent) prominent redox concentrations along pore linings. This met the hydric soil indicator of redox dark surface (F6). Indicators of wetland hydrology observed during the field reconnaissance included oxidized rhizospheres on living roots (C3), drainage patterns (B10), and geomorphic position (D2) due to the sampling point's location at the toe of a hillslope within a drainage ditch. Since all three required wetland criteria were met, this area qualified as a wetland.

Sampling Point A2 (SP-A2) – Wetland A Upland

SP-A2 was located on a stream terrace of Salamonie River, west of Wetland A. The dominant vegetation at this sampling point was common hackberry (*Celtis occidentalis*, FAC), ash-leaf maple (*Acer negundo*, FAC), and white mulberry (*Morus alba*, FAC) in the tree stratum and tall goldenrod (*Solidago gigantea*, FACW) and hooded blue violet (*Viola sororia*, FAC) in the herb stratum. This met the hydrophytic vegetation indicators of dominance test (100 percent) and prevalence index (2.60). To a depth of 20 in., the soils in the test pit were a silty clay loam. From 0 to 20 in., the soil exhibited a matrix color of 10YR 4/2 (100 percent). This did not meet any of the hydric soil indicators. Indicators of wetland hydrology observed included drainage patterns (B10), geomorphic position (D2) due to the sampling point's location on a stream terrace, and FAC-neutral test (D5). Since only two of the three required wetland criteria were met, this area did not qualify as a wetland.

Wetland B (0.005 ac.) – PSS1A

Wetland B was classified as a Palustrine, Scrub-shrub, Broad-Leaved Deciduous, Temporarily Flooded (PSS1A) wetland. This wetland is located in a drainage ditch north of S.R. 26 and west of Salamonie River. Wetland B likely receives stormwater drainage on a consistent basis during rain events. Wetland B does not directly abut a jurisdictional stream and should therefore be considered a Waters of the State. The boundaries of Wetland B were delineated by the lack of wetland vegetation and/or increased elevation. Wetland B was not associated with a mapped NWI polygon and was formed within GlgB2 mapped soil unit, which is listed as 3-percent hydric. Wetland B is adjacent to road and residential property and likely receives run-off from both of these sources. The wetland also exhibited poor plant species

diversity. These factors contribute to the conclusion that the wetland can support a poor amount of wildlife or aquatic habitat, and therefore should be considered to be of poor quality.

Sampling Point B1 (SP-B1) – Wetland B

SP-B1 was located in a drainage ditch north of S.R. 26 and west of Salamonie River. The dominant vegetation at this sampling point was green ash (*Fraxinus pennsylvanica*, FACW) and black walnut (*Juglans nigra*, FACU) in the sapling/shrub stratum and broad-leaf cattail (*Typha latifolia*, OBL) and common boneset (*Eupatorium perfoliatum*, OBL) in the herb stratum. This met the hydrophytic vegetation indicators of dominance test (75 percent) and prevalence index (1.88). To a depth of 20 in., the soils in the test pit were silty clay loam. From 0 to 9 in., the soil exhibited a matrix color of 10YR 4/2 (75 percent) with 10YR 5/3 (15 percent) faint redox concentrations and 7.5YR 5/8 (10 percent) prominent redox concentrations in the matrix. From 9 to 20 in., the soil exhibited a matrix color of 10YR 4/2 (70 percent) with 10YR 5/3 (30 percent) faint redox concentrations in the matrix. This met the hydric soil indicator of depleted matrix (F3). Indicators of wetland hydrology observed included saturation (A3), geomorphic position (D2) due to the sampling point's location in a drainage ditch, and FAC-neutral test (D5). Since all three required wetland criteria were met, this area qualifies as a wetland.

Sampling Point B2 (SP-B2) – Wetland B Upland

SP-B2 was located at the top of a hillslope north of Wetland B. The dominant vegetation at this sampling point was red fescue (*Festuca rubra*, FACU) and red clover (*Trifolium pratense*, FACU) in the herb stratum. This did not meet any of the hydrophytic vegetation indicators. To a depth of 20 in., the soil in the test pit was a silty clay loam. From 0 to 20 in., the soil exhibited mixed matrix colors of 10YR 5/1 (50 percent) and 10YR 5/2 (50 percent). This did not meet any of the hydric soil indicators. No primary or secondary indicators of wetland hydrology were observed. Since none of the three required wetland criteria were met, this area did not qualify as a wetland.

Additional Sampling Points:

Additional sampling points were taken in areas where wetlands were suspected but did not meet the three wetland criteria. Descriptions of these sampling points are included below.

Sampling Point 1 (SP-1)

SP-1 was located on a stream terrace north of S.R. 26 and east of Salamonie River. The dominant vegetation at this sampling point included Washington hawthorn (*Crataegus phaenopyrum*, FAC) and ash-leaf maple (*Acer negundo*, FAC) in the tree stratum and reed canary grass (*Phalaris arundinacea*, FACW) and great ragweed (*Ambrosia trifida*, FAC) in the herb stratum. This met the hydrophytic vegetation indicators of dominance test (100 percent) and prevalence index (2.43). To a depth of 20 in., the soil in the test pit was a silty clay loam. From 0 to 20 in., the soil exhibited a matrix color of 10YR 4/2 (100 percent). This did not meet any of the hydric soil indicators. Indicators of wetland hydrology observed included geomorphic

position (D2) due to the sampling point's location on a stream terrace and FAC-neutral test (D5). Since only two of the three required wetland criteria were met, this area did not qualify as a wetland.

Sampling Point 2 (SP-2)

SP-2 was located on a stream terrace south of S.R. 26 and west of Salamonie River. The dominant vegetation at this sampling point was reed canary grass (*Phalaris arundinacea*, FACW) and great ragweed (*Ambrosia trifida*, FAC) in the herb stratum. This met the hydrophytic vegetation indicators of dominance test (100 percent) and prevalence index (2.20). To a depth of 20 in., the soil in the test pit was a silty clay loam. From 0 to 20 in., the soil exhibited a matrix color of 10YR 4/2 (100 percent). This did not meet any of the hydric soil indicators. Indicators of wetland hydrology observed included geomorphic position (D2) due to the sampling point's location on a stream terrace, and FAC-neutral test (D5). Since only two of the three required wetland criteria were met, this area did not qualify as a wetland.

Sampling Point 3 (SP-3)

SP-3 was located on a stream terrace south of S.R. 26 and west of Salamonie River. The dominant vegetation at this sampling point was reed canary grass (*Phalaris arundinacea*, FACW) in the herb stratum. This met the hydrophytic vegetation indicators of rapid test for hydrophytic vegetation, dominance test (100 percent), and prevalence index (2.00). To a depth of 20 in., the soil in the test pit was a silty clay loam. From 0 to 18 in., the soil exhibited a matrix color of 10YR 4/2 (100 percent). From 18 to 20 in., the soil exhibited mixed matrix colors of 10YR 3/4 (45 percent) and 10YR 4/1 (45 percent) with 10YR 6/4 (10 percent) distinct redox concentrations in the matrix. This did not meet any of the hydric soil indicators. Indicators of wetland hydrology observed included drainage patterns (B10), geomorphic position (D2) due to the sampling point's location on a stream terrace, and FAC-neutral test (D5). Since only two of the three required wetland criteria were met, this area did not qualify as a wetland.

Sampling Point 4 (SP-4)

SP-4 was located at the toe of a hillslope within RSD 5, north of S.R. 26, and east of Salamonie River. The dominant vegetation at this sampling point was reed canary grass (*Phalaris arundinacea*, FACW) in the herb stratum. This met the hydrophytic vegetation indicators of rapid test for hydrophytic vegetation, dominance test (100 percent), and prevalence index (2.77). To a depth of 20 in., the soils in the test pit were silty clay loam. From 0 to 11 in., the soil exhibited a matrix color of 10YR 3/2 (100 percent). From 11 to 20 in., the soil exhibited mixed matrix colors of 10YR 3/2 (50 percent) and 10YR 4/2 (50 percent). This did not meet any of the hydric soil indicators. Indicators of wetland hydrology observed included geomorphic position (D2) due to the sampling point's location at the toe of a hillslope within a roadside ditch and FAC-neutral test (D5). Since only two of the three required wetland criteria were met, this area did not qualify as a wetland.

Streams:

One stream, Salamonie River, was observed within the PSL during the field reconnaissance. A description of the stream is provided below.

Stream Summary Table

Stream Name	Photos	Lat/Long	OHWL Width	OHWL Depth	USGS Blue-line	Riffles Pools	Quality	Likely Water of the U.S.	Dominant Substrate	Potential Stream Impact
			ft.	in.						ft.
Salamonie River	25-38	40.43258 -84.96353	36.3	10.5	Yes (Perennial)	Riffles & Pools	Poor	Yes	Sand & Silt	200

Salamonie River (200 LFT)

Salamonie River flows from northeast to southwest and is approximately 200 linear feet (LFT) (0.167 ac.) within the PSL. Salamonie River is a tributary to the Wabash River. Therefore, Salamonie River should be considered a jurisdictional Water of the U.S. Salamonie River was associated with a solid blue line on the USGS topographic map, indicating it is perennial. Salamonie River was classified as both R2UBH and R2UBHx by the NWI. Salamonie River was indicated to be an “Artificial Path” by the NHD. However, Salamonie River did not appear to have undergone any recent relocation or any other work in the past based on the USGS topographic map (dated 1996) and based on aerial imagery dating back to 1998. Therefore, based on USGS topographic maps, aerial imagery, and field observations, Salamonie River should be considered a perennial stream. The Ordinary High-Water Mark (OHWM) was 36.3 ft. wide and 10.5 in. deep within the PSL. Measurements of the OHWM were collected outside the influence of the existing structure. The dominant stream substrates were sand and silt. Pools were present and the only functional riffles observed were within the influence of the existing structure. The stream exhibited sparse amounts of instream cover which included undercut banks, overhanging vegetation, and logs or woody debris. No sinuosity was observed and water velocity was slow. The floodplain of Salamonie River consisted of forest. No aquatic organisms were observed. According to USGS *Indiana StreamStats*, the drainage area upstream of Salamonie River at the PSL is 45.873 square miles. Qualities of the stream listed above contribute to this stream being classified as poor quality.

Open Water:

One open water feature was observed within the PLS during the field reconnaissance and is noted on **Exhibit 5**. Open Water 1 was located in the northcentral portion of the PSL and 0.037 ac. was contained within the PSL.

Roadside Ditches and Drainage Features:

Six roadside ditches (RSD) and four drainage features (DF) were identified within the PSL. These features aided in stormwater and/or roadside drainage. No OHWM was observed in these features, so they are likely non-jurisdictional.

Roadside Ditches and Drainage Features Summary Table

Name	Photo #s	Lat/Long	Linear Length (ft)	Location	Description
RSD 1	12, 44	40.43261 -84.96527	177	Northwest Quadrant	Vegetated Swale
RSD 2	52	40.43266 -84.96377	64	Northwest Quadrant	Vegetated Swale, Concrete Ditch
RSD 3	49, 50	40.43246 -84.96426	224	Southwest Quadrant	Vegetated Swale
RSD 4	68, 69	40.43245 -84.963	73	Southeast Quadrant	Vegetated Swale
RSD 5	23, 24, 58, 60	40.4327 -84.96166	698	Northeast Quadrant	Vegetated Swale
RSD 6	61, 62	40.43252 -84.96075	190	Southeast Quadrant	Vegetated Swale
DF 1	44, 45	40.43265 -84.96526	35	Northwest Quadrant	Concrete Ditch
DF 2	12, 46	40.43273 -84.96493	83	Northwest Quadrant	Gravel Ditch
DF 3	53, 54, 56	40.43269 -84.96324	136	Northwest Quadrant	Vegetated/Silt Swale
DF 4	70, 71, 73	40.43245 -84.96334	124	Southeast Quadrant	Vegetated/Silt Swale

Culverts and Drains:

Four culverts were identified within the PSL. The culverts were composed of either concrete or corrugated metal pipe (CMP). These culverts did not carry jurisdictional waters due to a lack of an OHWM, bed and bank, and lack of a significant nexus to any jurisdictional Waters of the U.S. Locations of these culverts are shown on **Exhibits 5 and 6** and attached photosheet.

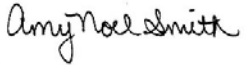
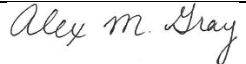

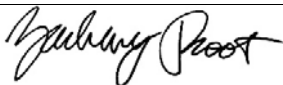
Conclusion:

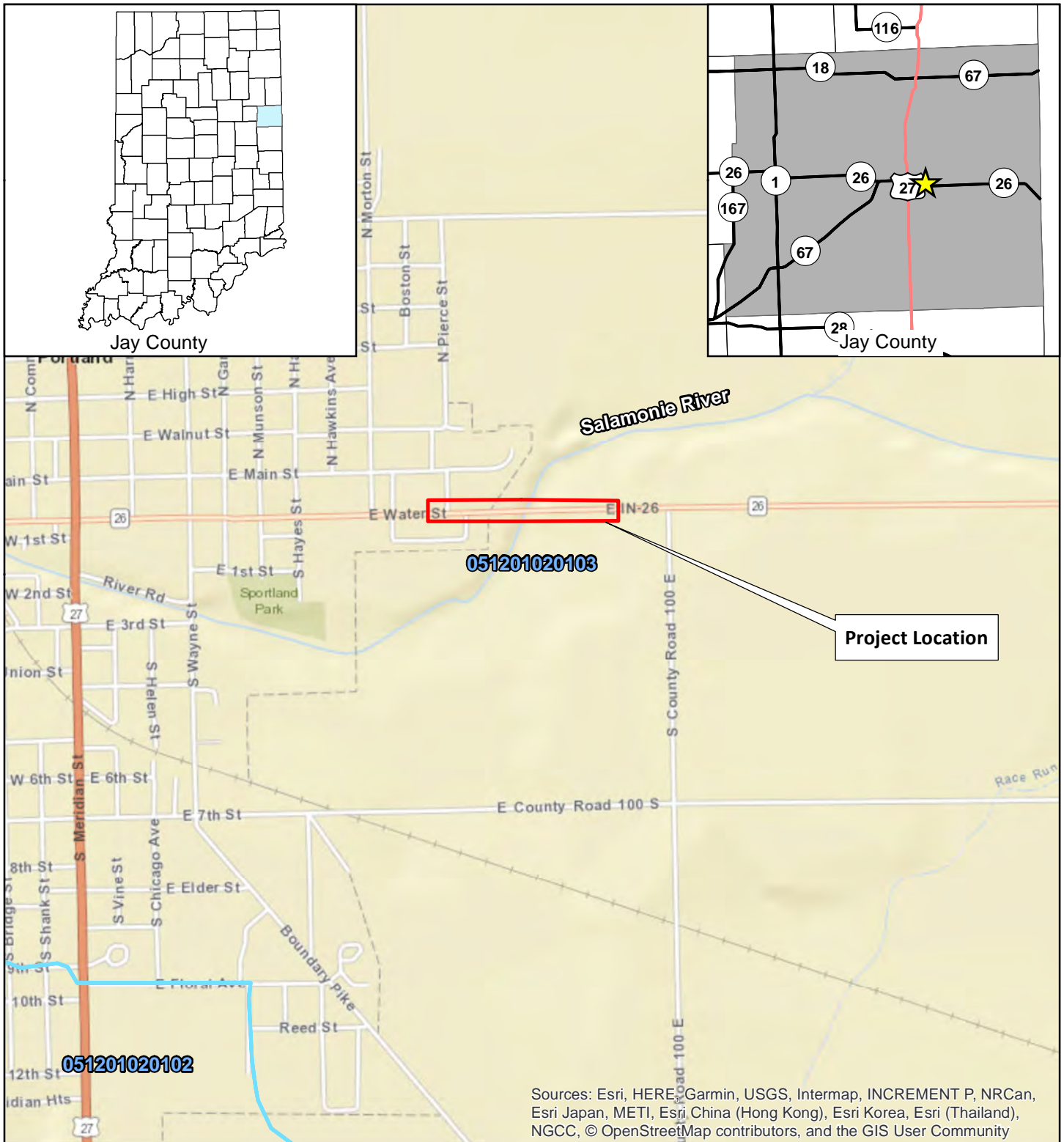
Two wetlands, one PFO1A and the other PSS1A, totaling 0.133 ac., were identified within the project study limits and are likely Waters of the State. One stream, Salamonie River, totaling 200 LFT, was identified within the project study limits. One open water feature, totaling 0.037 acre within the project study limits, was also identified. These waterways are likely Waters of the U.S. Every effort should be taken

to avoid and minimize impacts to the waterway and wetlands. If impacts are necessary, then mitigation might be required. The INDOT Environmental Services Division should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by the U.S. Army Corps of Engineers. This report is our best judgment based on the guidelines set forth by the Corps.

Acknowledgements:

This waters determination has been prepared based on the best available information, interpreted in light of the investigator's training, experience and professional judgement in conformance with the 1987 Corps of engineers Wetlands Delineation Manual, the appropriate regional supplement, the USACE Jurisdictional Determination Form Instructional Guidebook, and other appropriate agency guidelines.

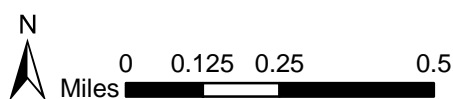
Metric Environmental Staff	Position	Contributing Effort	Signature/Date
Amy Noel Smith	Natural Resources Project Manager II	Project Manager, Field Data Collection	 4/2/2020
Alex Gray	Natural Resources Project Manager I	QAQC	 4/2/2020
Cory Shumate	Environmental Scientist 2	Field Data Collection, Report Preparation	 4/2/2020
Zachary Root	Environmental Scientist 2	Field Data Collection	 4/2/2020



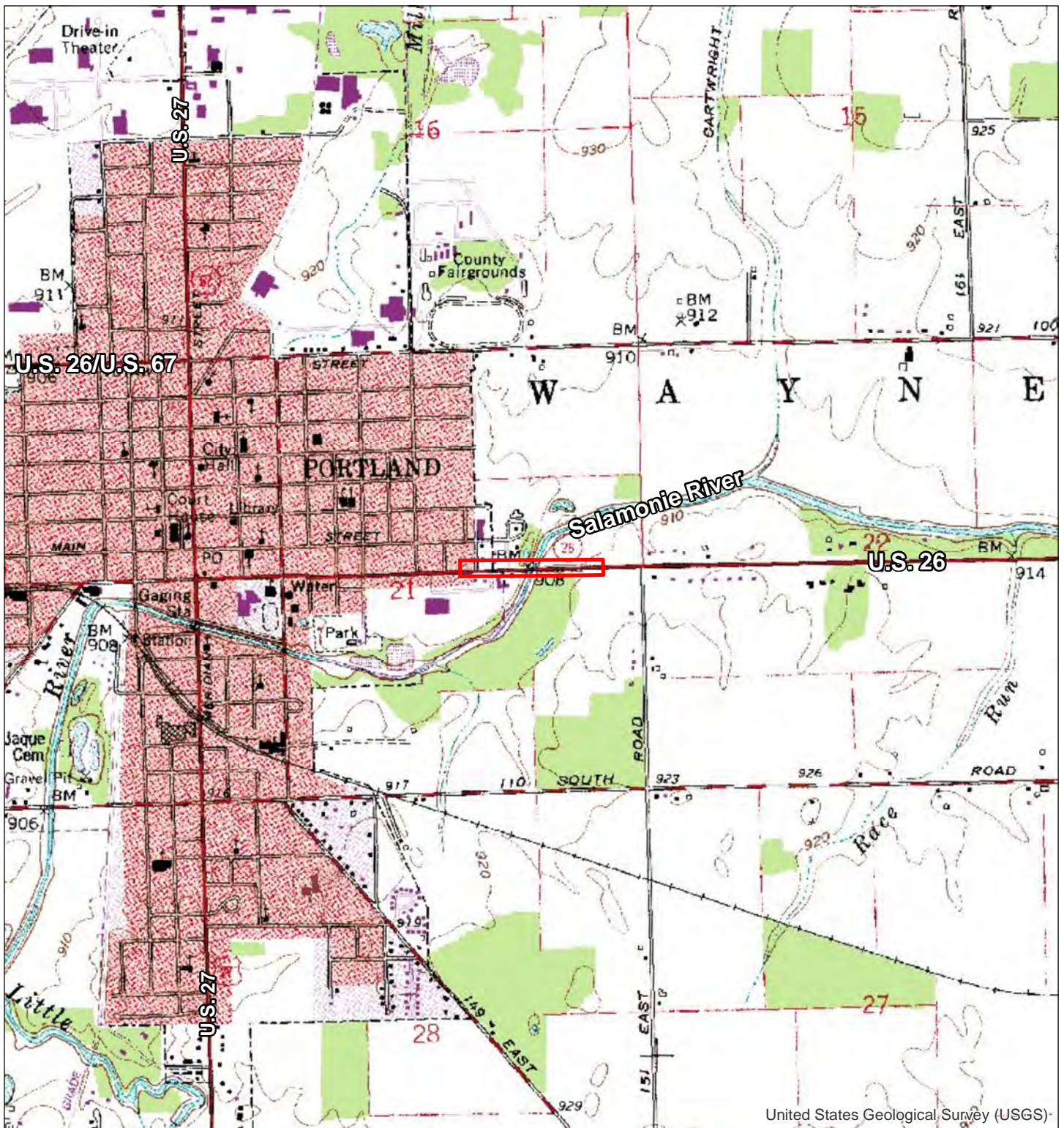
Project Study Limits (PSL) 12-Digit HUC Watershed

Exhibit 1 - Location Map
S.R. 26 over Salamonie River
Bridge Replacement
Wayne Township, Jay County, IN
Des. No. 1600828
Metric Project No. 17-0082
Map Date: 8/26/2019
Map Author: Cory Shumate

All locations approximate
2018 Basemap
Latitude: 40.43258 Longitude: -84.96348



Exh. 1



United States Geological Survey (USGS)




 Project Study Limits (PSL)

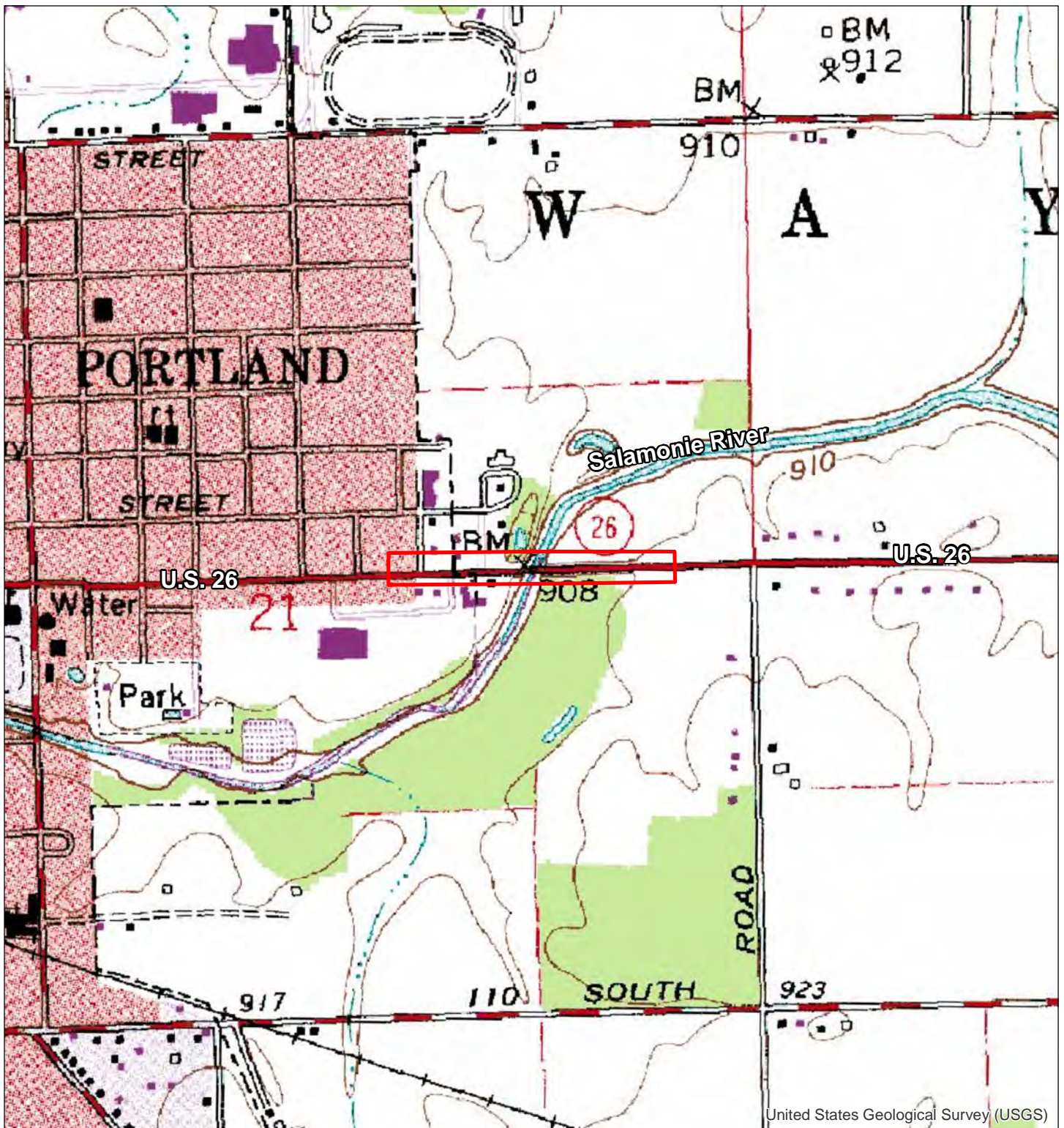
Exhibit 2A - USGS Topographic Map - Small Scale
Portland, IN 7.5 minute Quadrangle
S.R. 26 over Salamonie River
Bridge Replacement
Wayne Township, Jay County, IN
Des. No. 1600828
Metric Project No. 17-0082
Map Date: 8/5/2019
Map Author: Zachary Root

All locations approximate
Source: Indiana Spatial Data Portal (1996)

 0 625 1,250 2,500
Feet 



Exh. 2A



Project Study Limits (PSL)

Exhibit 2B - USGS Topographic Map - Large Scale
 Portland, IN 7.5 minute Quadrangle
 S.R. 26 over Salamonie River
 Bridge Replacement
 Wayne Township, Jay County, IN
 Des. No. 1600828
 Metric Project No. 17-0082
 Map Date: 8/5/2019
 Map Author: Zachary Root

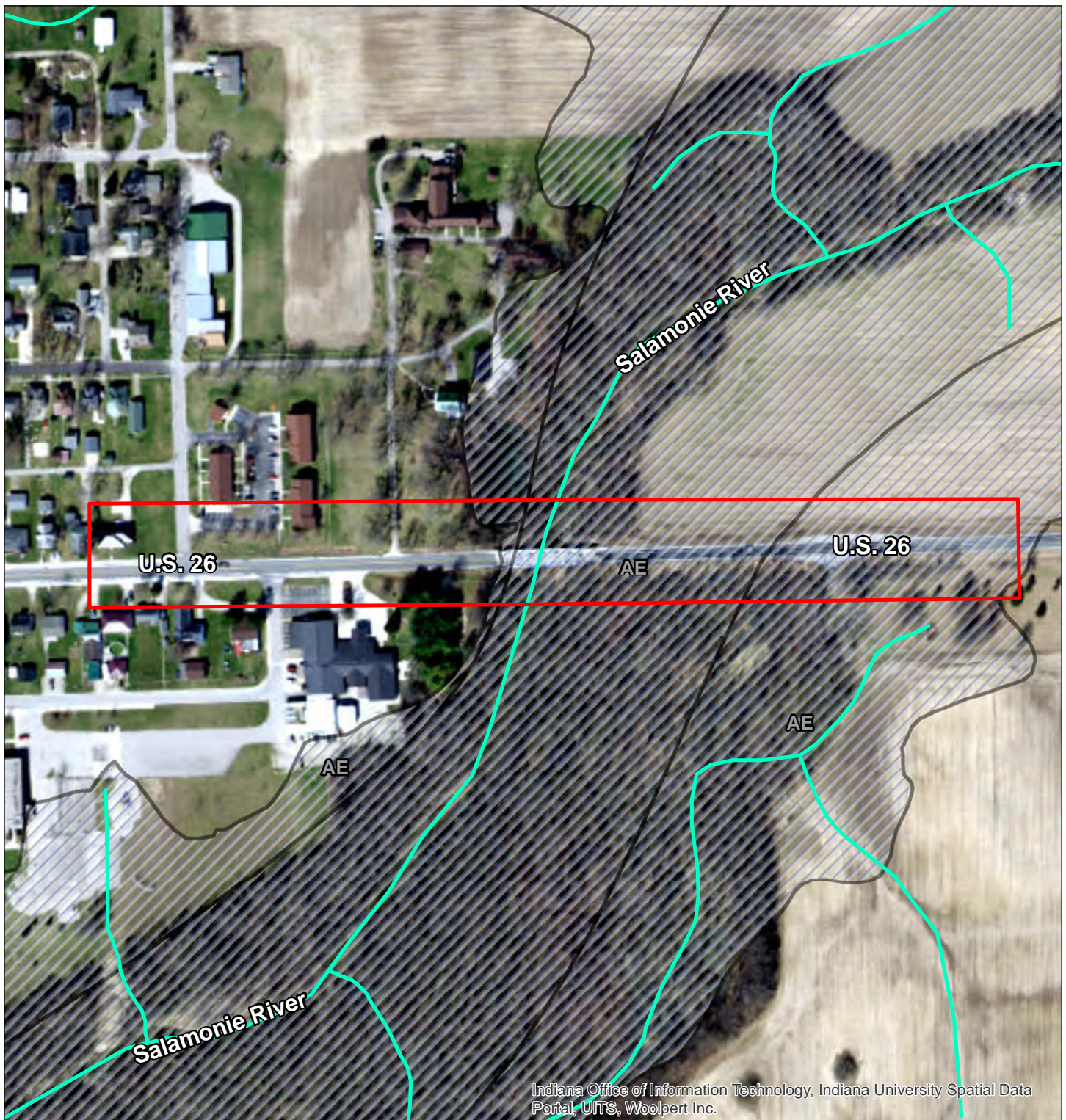
All locations approximate
 Source: Indiana Spatial Data Portal (1996)



0 250 500 1,000
 Feet



Exh. 2B



Project Study Limits (PSL)

— NHD Flowline

Floodplain - Zone AE - 1% Chance Annual Flood

Exhibit 3 - NHD Flowline and FEMA
Flood Insurance Rate Map (FIRM)
S.R. 26 over Salamonie River
Bridge Replacement
Wayne Township, Jay County, IN
Des. No. 1600828
Metric Project No. 17-0082
Map Date: 8/26/2019
Map Author: Cory Shumate

All locations approximate

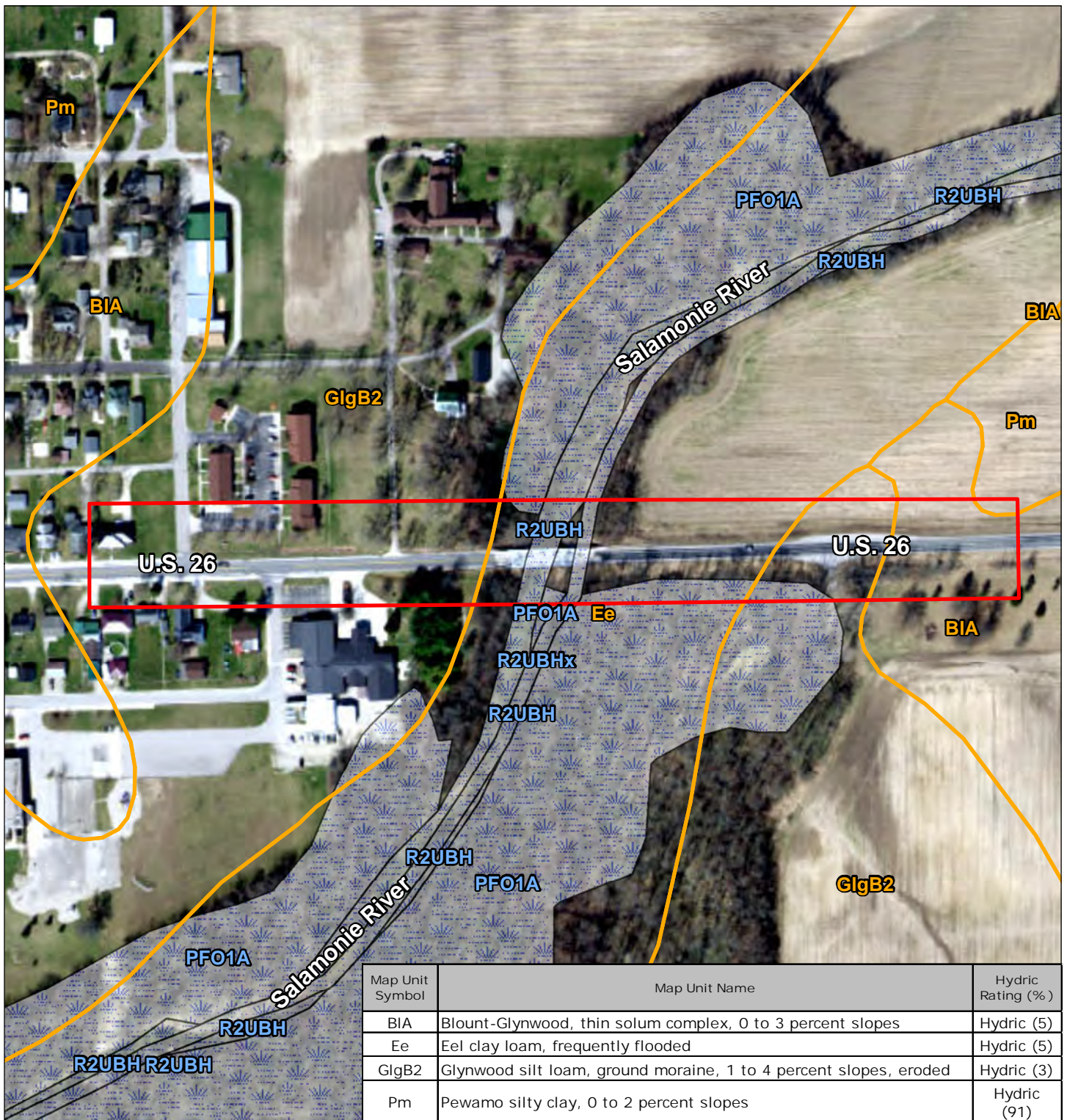
Source: Indiana Spatial Data Portal (2017)



0 100 200 400
Feet



Exh. 3



 Project Study Limits (PSL)
 NWI Wetland
 NRCS Soil Survey

Exhibit 3 - NWI Wetland and NRCS Soil Survey Map
 S.R. 26 over Salamonie River
 Bridge Replacement
 Wayne Township, Jay County, IN
 Des. No. 1600828
 Metric Project No. 17-0082
 Map Date: 8/26/2019
 Map Author: Cory Shumate

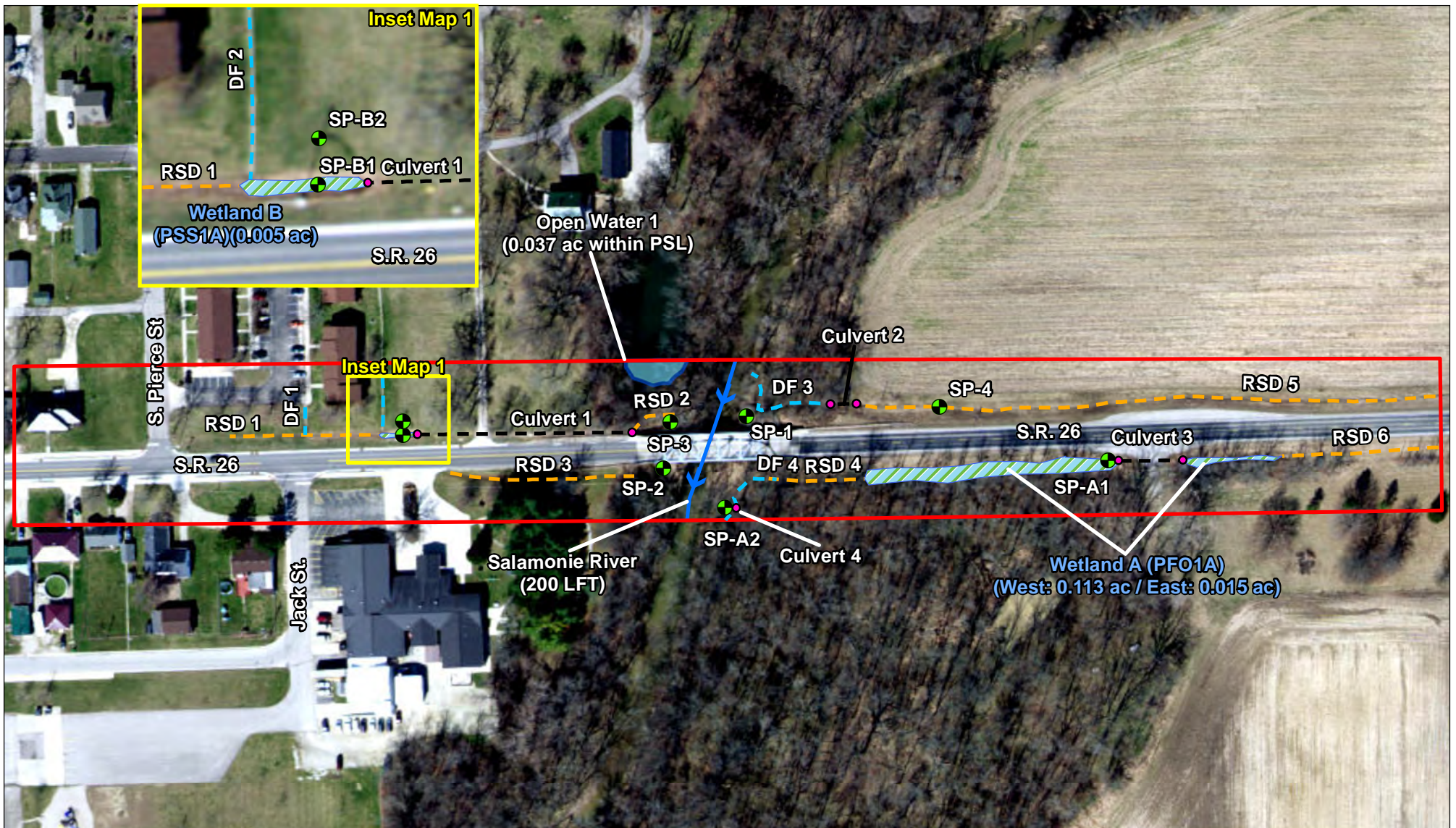
All locations approximate
 Source: Indiana Spatial Data Portal (2017)



0 100 200 400
 Feet



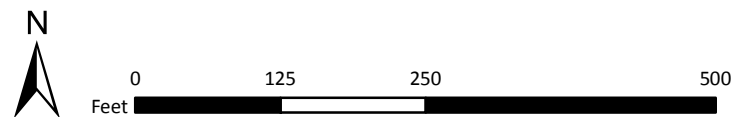
Exh. 4



- Project Study Limits (PSL)
 Wetland
 Open Water
 - - - Drainage Feature (DF)
 ● Culvert Opening
- Sampling Point (SP)
 — Stream
 - - - Roadside Ditch (RSD)
 - - - Culvert

Exhibit 4 - Waters Delineation Map
 S.R. 26 over Salamonie River
 Bridge Replacement
 Wayne Township, Jay County, IN
 Des. No. 1600828
 Metric Project No. 17-0082
 Map Date: 9/3/2019
 Map Author: Cory Shumate

All locations approximate
 Source: Indiana Spatial Data Portal (2017)





- Project Study Limits (PSL)
 Wetland
 Open Water
 --- Drainage Feature (DF)
 ● Culvert Opening
- Sampling Point (SP)
 — Stream
 --- Roadside Ditch (RSD)
 --- Culvert

Exhibit 6 - Photo Location Map
 S.R. 26 over Salamonie River
 Bridge Replacement
 Wayne Township, Jay County, IN
 Des. No. 1600828
 Metric Project No. 17-0082
 Map Date: 9/3/2019
 Map Author: Cory Shumate

All locations approximate
 Source: Indiana Spatial Data Portal (2017)



0 125 250 500
 Feet



Exh. 5

Appendix F - 18



1. View of SP-A1, Wetland A, soil profile.



2. View of SP-A1, Wetland A, looking east.



3. View of SP-A1, Wetland A, looking west.



4. View of SP-A2, Wetland A upland, soil profile.

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
 Bridge Replacement
 Wayne Township, Jay County, Indiana
 Des. No. 1600828





5. View of SP-A2, Wetland A upland, looking west.



6. View of SP-A2, Wetland A upland, looking east.



7. View of SP-B1, Wetland B, soil profile.



8. View of SP-B1, Wetland B, looking north.

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
Bridge Replacement
Wayne Township, Jay County, Indiana
Des. No. 1600828





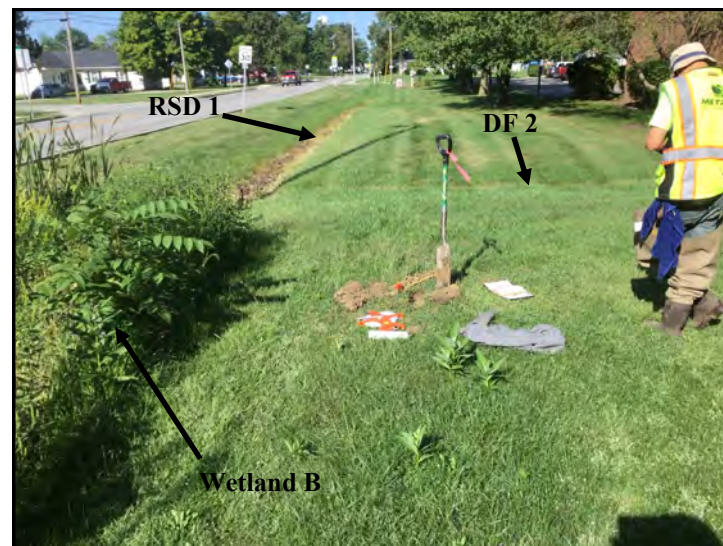
9. View of SP-B1, Wetland B, looking west.



10. View of SP-B2, Wetland B upland, soil profile.



11. View of SP-B2, Wetland B upland, and Wetland B, looking east.



12. View of SP-B2, Wetland B upland, Wetland B, Roadside Ditch (RSD) 1, and Drainage Feature (DF) 2, looking west.

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
 Bridge Replacement
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 Des. No. 1600828





13. View of SP-1, upland sampling point 1, soil profile.



14. View of SP-1, upland sampling point 1, looking southwest.



15. View of SP-1, upland sampling point 1, looking south.



16. View of SP-2, upland sampling point 2, soil profile.

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
 Bridge Replacement
 Wayne Township, Jay County, Indiana
 Des. No. 1600828





17. View of SP-2, upland sampling point 2, looking east.



18. View of SP-2, upland sampling point 2, looking west.



19. View of SP-3, upland sampling point 3, soil profile.



20. View of SP-3, upland sampling point 3, looking southwest.

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
Bridge Replacement
Wayne Township, Jay County, Indiana
Des. No. 1600828





21. View of SP-3, upland sampling point 3, and RSD 2, looking northeast.



22. View of SP-4, upland sampling point 4, soil profile.



23. View of SP-4, upland sampling point 4, and RSD 5, looking southwest.



24. View of SP-4, upland sampling point 4, and RSD 5, looking east.

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
 Bridge Replacement
 Wayne Township, Jay County, Indiana
 Des. No. 1600828





25. View of Salamonie River from northern project study limits (PSL), looking northeast (upstream).



26. View of eastern bank of Salamonie River and structure to be replaced (Bridge No. 026-38-03430 A/NIBI No. 007040) from northern PSL, looking southeast.



27. View of Salamonie River and structure to be replaced (Bridge No. 026-38-03430 A/NIBI No. 007040) from northern PSL, looking southwest (downstream).



28. View of western bank of Salamonie River from northern PSL, looking southwest.

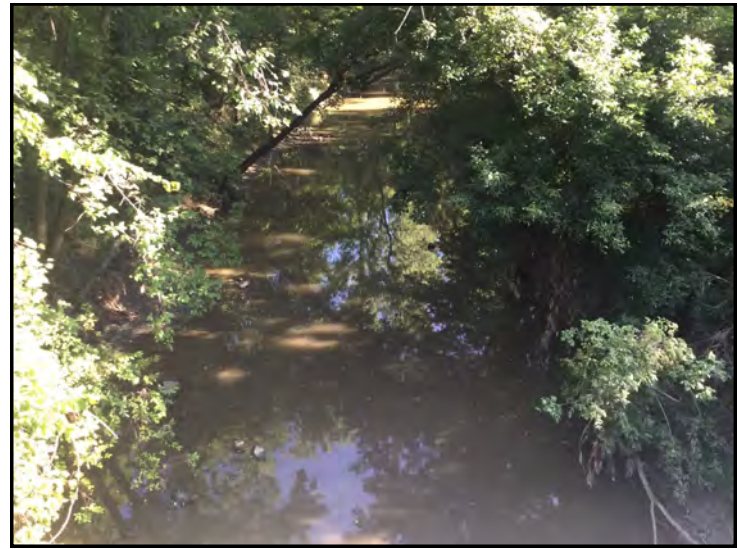
SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
 Bridge Replacement
 Wayne Township, Jay County, Indiana
 Des. No. 1600828





29. View of eastern bank of Salamonie River, looking northeast.



30. View of Salamonie River, looking northeast (upstream).



31. View of western bank of Salamonie River, looking northwest.



32. View of western bank of Salamonie River, looking southwest.

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
Bridge Replacement
Wayne Township, Jay County, Indiana
Des. No. 1600828





33. View of Salamonie River, looking southwest (downstream).



34. View of eastern bank of Salamonie River, looking southeast.



35. View of western bank of Salamonie River from southern PSL, looking northwest.



36. View of Salamonie River and structure to be replaced (Bridge No. 026-38-03430 A/NIBI No. 007040) from southern PSL, looking northeast (upstream).

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
 Bridge Replacement
 Wayne Township, Jay County, Indiana
 Des. No. 1600828





37. View of eastern bank of Salamonie River and structure to be replaced (Bridge No. 026-38-03430 A/NIBI No. 007040) from southern PSL, looking northeast.



38. View of Salamonie River from southern PSL, looking southwest (downstream).



39. View of bank of Open Water 1, looking northwest.



40. View of Open Water 1, looking north.

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
 Bridge Replacement
 Wayne Township, Jay County, Indiana
 Des. No. 1600828





41. View of bank of Open Water 1, looking northeast.



42. View of S.R. 26 right-of-way (ROW) from western PSL, looking east.



43. View of S.R. 26 ROW from western PSL, looking east.



44. View of S.R. 26 ROW, RSD 1, and DF 1, looking east.

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
 Bridge Replacement
 Wayne Township, Jay County, Indiana
 Des. No. 1600828





45. View of DF 1, looking north.



46. View of DF 2, looking north.



47. From inlet (western end) of Culvert 1, view of Culvert 1, looking east.



48. View of Wetland A from Culvert 1, looking west.

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
Bridge Replacement
Wayne Township, Jay County, Indiana
Des. No. 1600828





49. View of S.R. 26 ROW and RSD 3, looking east.



50. View of S.R. 26 ROW and RSD 3, looking northwest.



51. From outlet (eastern end) of Culvert 1, view of Culvert 1, looking southwest.



52. View of RSD 2, looking northeast.

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
 Bridge Replacement
 Wayne Township, Jay County, Indiana
 Des. No. 1600828





53. View of end of DF 3 which drains into Salamonie River, looking northwest.



54. View of DF 3 from where DF 3 drains into Salamonie River, looking southeast.



55. View of Culvert 2 outlet, looking east.



56. View of DF 3 from Culvert 2 outlet, looking west.

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
 Bridge Replacement
 Wayne Township, Jay County, Indiana
 Des. No. 1600828





57. View of Culvert 2 inlet, looking west.



58. View of RSD 5 from Culvert 2 inlet, looking east.



59. View of S.R. 26 ROW, looking west.



60. View of S.R. 26 ROW and RSD 5 from eastern PSL, looking west.

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
 Bridge Replacement
 Wayne Township, Jay County, Indiana
 Des. No. 1600828





61. View of S.R. 26 ROW and RSD 6 from eastern PSL, looking west.



62. View of S.R. 26 ROW and RSD 6, looking east.



63. View of Wetland A, looking west.



64. View of Culvert 3 inlet, looking west.

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
Bridge Replacement
Wayne Township, Jay County, Indiana
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65. View of Culvert 3 outlet, looking east.



66. View of Wetland A East from Culvert 3 inlet, looking east.



67. View of Wetland A West from Culvert 3 outlet, looking west.



68. View of RSD 4, looking west.

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
Bridge Replacement
Wayne Township, Jay County, Indiana
Des. No. 1600828





69. View of RSD 4, looking east.



70. View of DF 4, looking southwest.



71. View of DF 4, looking northeast.



72. View of Culvert 4, looking northeast.



73. View of DF 4, looking southwest.

SITE PHOTOGRAPHS—8/28/2019

S.R. 26 over Salamonie River
Bridge Replacement
Wayne Township, Jay County, Indiana
Des. No. 1600828



WETLAND DETERMINATION DATA FORM -- Midwest Region

Project/Site: Des 1600828 - S.R. 26 over Salamonie River City/County: Portland / Jay County Sampling Date: 8/28/2019
 Applicant/Owner: INDOT State: IN Sampling Point: SP-A1
 Investigator(s): Cory Shumate and Zachary Root Section, Township, Range: Section 21, Township 23 N, Range 14 E
 Landform (hillslope, terrace, etc.): Toe of Hillslope Local relief (concave, convex, none): Concave
 Slope (%): 1% Lat: 40.4325 Long: -84.96183 Datum: NAD83
 Soil Map Unit Name: Glynwood silt loam, ground moraine, 1 to 4 percent slopes, eroded (GlgB2) - Hydric (3%) NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS -- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>x</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Remarks:

Wetland A (PFO1A) Sampling Point. Project study area received over an inch of rain between 8/26/2019 and 8/27/2019.

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)																
1. <u>Juglans nigra</u>	<u>20%</u>	<u>Yes</u>	<u>FACU</u>																	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u>20%</u> = Total Cover																			
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>)																				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index worksheet: <table border="0"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x1 = <u> </u></td> </tr> <tr> <td>FACW species <u>100%</u></td> <td>x2 = <u>2</u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x3 = <u> </u></td> </tr> <tr> <td>FACU species <u>20%</u></td> <td>x4 = <u>0.8</u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u>1.20</u> (A)</td> <td><u>2.8</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.33</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x1 = <u> </u>	FACW species <u>100%</u>	x2 = <u>2</u>	FAC species <u> </u>	x3 = <u> </u>	FACU species <u>20%</u>	x4 = <u>0.8</u>	UPL species <u> </u>	x5 = <u> </u>	Column Totals: <u>1.20</u> (A)	<u>2.8</u> (B)	Prevalence Index = B/A = <u>2.33</u>	
Total % Cover of:	Multiply by:																			
OBL species <u> </u>	x1 = <u> </u>																			
FACW species <u>100%</u>	x2 = <u>2</u>																			
FAC species <u> </u>	x3 = <u> </u>																			
FACU species <u>20%</u>	x4 = <u>0.8</u>																			
UPL species <u> </u>	x5 = <u> </u>																			
Column Totals: <u>1.20</u> (A)	<u>2.8</u> (B)																			
Prevalence Index = B/A = <u>2.33</u>																				
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u>0%</u> = Total Cover																			
Herb Stratum (Plot size: <u>5' radius</u>)																				
1. <u>Phalaris arundinacea</u>	<u>80%</u>	<u>Yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u> </u> 1-Rapid Test for Hydrophytic Vegetation <u> </u> 2-Dominance Test is >50% <u>X</u> 3-Prevalence Index is ≤3.0 ¹ <u> </u> 4-Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Verbesina alternifolia</u>	<u>10%</u>	<u>No</u>	<u>FACW</u>																	
3. <u>Solidago gigantea</u>	<u>10%</u>	<u>No</u>	<u>FACW</u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
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12. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
13. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
14. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
15. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
16. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
17. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
18. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
19. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
20. <u> </u>	<u>100%</u> = Total Cover																			
Woody Vine Stratum (Plot size: <u>30' radius</u>)																				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
2. <u> </u>	<u>0%</u> = Total Cover																			

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: SP-A1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-11	10YR 3/1	85	5YR 3/4	15	C	PL	SiCL	Prominent redox concentrations.
11-20	10YR 3/1	80	10YR 5/8	15	C	M	SiCL	Prominent redox concentrations.
			5YR 3/4	5	C	PL		Prominent redox concentrations.

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required: check all that apply)		Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:			Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Surface Water Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____		
Water Table Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____		
Saturation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): _____		
(includes capillary fringe)				

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Sampling point was located within a roadside ditch. Therefore, it meets the criteria for geomorphic position (D2).

WETLAND DETERMINATION DATA FORM -- Midwest Region

Project/Site: Des 1600828 - S.R. 26 over Salamonie River City/County: Portland / Jay County Sampling Date: 8/28/2019
 Applicant/Owner: INDOT State: IN Sampling Point: SP-A2
 Investigator(s): Cory Shumate and Zachary Root Section, Township, Range: Section 21, Township 23 N, Range 14 E
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None
 Slope (%): 0% Lat: 40.43236 Long: -84.96347 Datum: NAD83
 Soil Map Unit Name: Eel clay loam, frequently flooded (Ee) - Hydric (5%) NWI classification: PFO1A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS -- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>x</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Remarks:
 Wetland A Upland Sampling Point. Project study area received over an inch of rain between 8/26/2019 and 8/27/2019.

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u> radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A) Total Number of Dominant Species Across All Strata: <u>6</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																																
1. <u>Celtis occidentalis</u>	<u>40%</u>	<u>Yes</u>	<u>FAC</u>																																	
2. <u>Acer negundo</u>	<u>30%</u>	<u>Yes</u>	<u>FAC</u>																																	
3. <u>Morus alba</u>	<u>20%</u>	<u>Yes</u>	<u>FAC</u>																																	
4. <u>Maclura pomifera</u>	<u>10%</u>	<u>No</u>	<u>FACU</u>																																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
<u>100%</u> = Total Cover																																				
Sapling/Shrub Stratum (Plot size: <u>15'</u> radius)																																				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index worksheet: <table border="0"> <tr> <td colspan="2">Total % Cover of:</td> <td colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td><u>20%</u></td> <td>x1 =</td> <td><u>0.2</u></td> </tr> <tr> <td>FACW species</td> <td><u>50%</u></td> <td>x2 =</td> <td><u>1</u></td> </tr> <tr> <td>FAC species</td> <td><u>120%</u></td> <td>x3 =</td> <td><u>3.6</u></td> </tr> <tr> <td>FACU species</td> <td><u>10%</u></td> <td>x4 =</td> <td><u>0.4</u></td> </tr> <tr> <td>UPL species</td> <td><u> </u></td> <td>x5 =</td> <td><u> </u></td> </tr> <tr> <td>Column Totals:</td> <td><u>2.00</u> (A)</td> <td></td> <td><u>5.2</u> (B)</td> </tr> <tr> <td colspan="4">Prevalence Index = B/A = <u>2.60</u></td> </tr> </table>	Total % Cover of:		Multiply by:		OBL species	<u>20%</u>	x1 =	<u>0.2</u>	FACW species	<u>50%</u>	x2 =	<u>1</u>	FAC species	<u>120%</u>	x3 =	<u>3.6</u>	FACU species	<u>10%</u>	x4 =	<u>0.4</u>	UPL species	<u> </u>	x5 =	<u> </u>	Column Totals:	<u>2.00</u> (A)		<u>5.2</u> (B)	Prevalence Index = B/A = <u>2.60</u>			
Total % Cover of:		Multiply by:																																		
OBL species	<u>20%</u>	x1 =	<u>0.2</u>																																	
FACW species	<u>50%</u>	x2 =	<u>1</u>																																	
FAC species	<u>120%</u>	x3 =	<u>3.6</u>																																	
FACU species	<u>10%</u>	x4 =	<u>0.4</u>																																	
UPL species	<u> </u>	x5 =	<u> </u>																																	
Column Totals:	<u>2.00</u> (A)		<u>5.2</u> (B)																																	
Prevalence Index = B/A = <u>2.60</u>																																				
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
<u>0%</u> = Total Cover																																				
Herb Stratum (Plot size: <u>5'</u> radius)																																				
1. <u>Solidago gigantea</u>	<u>50%</u>	<u>Yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u> </u> 1-Rapid Test for Hydrophytic Vegetation <u>X</u> 2-Dominance Test is >50% <u>X</u> 3-Prevalence Index is ≤3.0 ¹ <u> </u> 4-Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																
2. <u>Viola sororia</u>	<u>30%</u>	<u>Yes</u>	<u>FAC</u>																																	
3. <u>Persicaria hydropiperoides</u>	<u>20%</u>	<u>Yes</u>	<u>OBL</u>																																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
12. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
13. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
14. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
15. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
16. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
17. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
18. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
19. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
20. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
<u>100%</u> = Total Cover																																				
Woody Vine Stratum (Plot size: <u>30'</u> radius)																																				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																																
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																																	
<u>0%</u> = Total Cover																																				

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: SP-A2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-20	10YR 4/2	100					SiCL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):		
Type: _____		
Depth (inches): _____		
	Hydric Soil Present?	Yes _____ No <u>X</u>

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required: check all that apply)		Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <u>x</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Sampling point was located on a terrace within the Q100 floodplain of Salamonie River. Therefore, it meets the criteria for geomorphic position (D2).

WETLAND DETERMINATION DATA FORM -- Midwest Region

Project/Site: Des 1600828 - S.R. 26 over Salamonie River City/County: Portland / Jay County Sampling Date: 8/28/2019
 Applicant/Owner: INDOT State: IN Sampling Point: SP-B1
 Investigator(s): Cory Shumate and Zachary Root Section, Township, Range: Section 21, Township 23 N, Range 14 E
 Landform (hillslope, terrace, etc.): Drainage Ditch Local relief (concave, convex, none): Concave
 Slope (%): 2% Lat: 40.4326 Long: -84.96485 Datum: NAD83
 Soil Map Unit Name: Glynwood silt loam, ground moraine, 1 to 4 percent slopes, eroded (GlgB2) - Hydric (3%) NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS -- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u>x</u>	No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Remarks:

Wetland B (PSS1A) Sampling Point. Project study area received over an inch of rain between 8/26/2019 and 8/27/2019.

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75%</u> (A/B)																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
<u>0%</u> = Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>)																				
1. <u>Fraxinus pennsylvanica</u>	<u>30%</u>	<u>Yes</u>	<u>FACW</u>	Prevalence Index worksheet: <table border="0"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u>80%</u></td> <td>x1 = <u>0.8</u></td> </tr> <tr> <td>FACW species <u>50%</u></td> <td>x2 = <u>1</u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x3 = <u> </u></td> </tr> <tr> <td>FACU species <u>30%</u></td> <td>x4 = <u>1.2</u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u>1.60</u> (A)</td> <td><u>3</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>1.88</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>80%</u>	x1 = <u>0.8</u>	FACW species <u>50%</u>	x2 = <u>1</u>	FAC species <u> </u>	x3 = <u> </u>	FACU species <u>30%</u>	x4 = <u>1.2</u>	UPL species <u> </u>	x5 = <u> </u>	Column Totals: <u>1.60</u> (A)	<u>3</u> (B)	Prevalence Index = B/A = <u>1.88</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>80%</u>	x1 = <u>0.8</u>																			
FACW species <u>50%</u>	x2 = <u>1</u>																			
FAC species <u> </u>	x3 = <u> </u>																			
FACU species <u>30%</u>	x4 = <u>1.2</u>																			
UPL species <u> </u>	x5 = <u> </u>																			
Column Totals: <u>1.60</u> (A)	<u>3</u> (B)																			
Prevalence Index = B/A = <u>1.88</u>																				
2. <u>Juglans nigra</u>	<u>10%</u>	<u>Yes</u>	<u>FACU</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
<u>40%</u> = Total Cover																				
Herb Stratum (Plot size: <u>5' radius</u>)																				
1. <u>Typha latifolia</u>	<u>50%</u>	<u>Yes</u>	<u>OBL</u>																	
2. <u>Eupatorium perfoliatum</u>	<u>30%</u>	<u>Yes</u>	<u>OBL</u>																	
3. <u>Asclepias syriaca</u>	<u>20%</u>	<u>No</u>	<u>FACU</u>																	
4. <u>Solidago gigantea</u>	<u>20%</u>	<u>No</u>	<u>FACW</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
13. _____	_____	_____	_____																	
14. _____	_____	_____	_____																	
15. _____	_____	_____	_____																	
16. _____	_____	_____	_____																	
17. _____	_____	_____	_____																	
18. _____	_____	_____	_____																	
19. _____	_____	_____	_____																	
20. _____	_____	_____	_____																	
<u>120%</u> = Total Cover																				
Woody Vine Stratum (Plot size: <u>30' radius</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
<u>0%</u> = Total Cover																				

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: SP-B1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-9	10YR 4/2	75	10YR 5/3	15	C	M	SiCL	Faint redox concentrations
			7.5YR 5/8	10	C	M		Prominent redox concentrations
9-20	10YR 4/2	70	10YR 5/3	30	C	M	SiCL	Faint redox concentrations

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input checked="" type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes x No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required: check all that apply)		Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:			Wetland Hydrology Present?	Yes <u> x </u> No <u> </u>
Surface Water Present?	Yes <u> </u> No <u> X </u>	Depth (inches): <u> </u>		
Water Table Present?	Yes <u> </u> No <u> X </u>	Depth (inches): <u> </u>		
Saturation Present?	Yes <u> X </u> No <u> </u>	Depth (inches): <u> 0 </u>		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks: Sampling point was located within a concave drainage ditch. Therefore, it meets the criteria for geomorphic position (D2).				

WETLAND DETERMINATION DATA FORM -- Midwest Region

Project/Site: Des 1600828 - S.R. 26 over Salamonie River City/County: Portland / Jay County Sampling Date: 8/28/2019
 Applicant/Owner: INDOT State: IN Sampling Point: SP-B2
 Investigator(s): Cory Shumate and Zachary Root Section, Township, Range: Section 21, Township 23 N, Range 14 E
 Landform (hillslope, terrace, etc.): Top of hillslope Local relief (concave, convex, none): None
 Slope (%): 0% Lat: 40.43265 Long: -84.96484 Datum: NAD83
 Soil Map Unit Name: Glynwood silt loam, ground moraine, 1 to 4 percent slopes, eroded (GlgB2) - Hydric (3%) NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS -- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u> </u>	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>x</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			

Remarks:

Wetland B Upland Sampling Point. Project study area received over an inch of rain between 8/26/2019 and 8/27/2019.

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)																
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u>0%</u>	= Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>)																				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index worksheet: <table border="0"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x1 = <u> </u></td> </tr> <tr> <td>FACW species <u> </u></td> <td>x2 = <u> </u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x3 = <u> </u></td> </tr> <tr> <td>FACU species <u>100%</u></td> <td>x4 = <u>4</u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u>1.00</u> (A)</td> <td><u>4</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>4.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x1 = <u> </u>	FACW species <u> </u>	x2 = <u> </u>	FAC species <u> </u>	x3 = <u> </u>	FACU species <u>100%</u>	x4 = <u>4</u>	UPL species <u> </u>	x5 = <u> </u>	Column Totals: <u>1.00</u> (A)	<u>4</u> (B)	Prevalence Index = B/A = <u>4.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u> </u>	x1 = <u> </u>																			
FACW species <u> </u>	x2 = <u> </u>																			
FAC species <u> </u>	x3 = <u> </u>																			
FACU species <u>100%</u>	x4 = <u>4</u>																			
UPL species <u> </u>	x5 = <u> </u>																			
Column Totals: <u>1.00</u> (A)	<u>4</u> (B)																			
Prevalence Index = B/A = <u>4.00</u>																				
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
6. <u> </u>	<u>0%</u>	= Total Cover																		
Herb Stratum (Plot size: <u>5' radius</u>)																				
1. <u>Festuca rubra</u>	<u>50%</u>	<u>Yes</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: <u> </u> 1-Rapid Test for Hydrophytic Vegetation <u> </u> 2-Dominance Test is >50% <u> </u> 3-Prevalence Index is ≤3.0 ¹ <u> </u> 4-Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Trifolium pratense</u>	<u>50%</u>	<u>Yes</u>	<u>FACU</u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
12. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
13. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
14. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
15. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
16. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
17. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
18. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
19. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
20. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
21. <u> </u>	<u>100%</u>	= Total Cover																		
Woody Vine Stratum (Plot size: <u>30' radius</u>)																				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>																
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u>0%</u>	= Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: SP-B2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-20	10YR 5/1	50					SiCL	Mixed Matrix
	10YR 5/2	50						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u> X </u>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply)			Secondary Indicators (minimum of two required)		
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> FAC-Neutral Test (D5)			

Field Observations: Surface Water Present? Yes _____ No <u> X </u> Depth (inches): _____ Water Table Present? Yes _____ No <u> X </u> Depth (inches): _____ Saturation Present? Yes _____ No <u> X </u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u> X </u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM -- Midwest Region

Project/Site: Des 1600828 - S.R. 26 over Salamonie River City/County: Portland / Jay County Sampling Date: 8/28/2019
 Applicant/Owner: INDOT State: IN Sampling Point: SP-1
 Investigator(s): Cory Shumate and Zachary Root Section, Township, Range: Section 21, Township 23 N, Range 14 E
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None
 Slope (%): 0% Lat: 40.43266 Long: -84.96338 Datum: NAD83
 Soil Map Unit Name: Eel clay loam, frequently flooded (Ee) - Hydric (5%) NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS -- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>x</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Remarks:
 Upland Sampling Point 1. Project study area received over an inch of rain between 8/26/2019 and 8/27/2019.

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u> radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																
1. <u>Crataegus phaenopyrum</u>	<u>20%</u>	<u>Yes</u>	<u>FAC</u>																	
2. <u>Acer negundo</u>	<u>20%</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u>40%</u> = Total Cover																			
Sapling/Shrub Stratum (Plot size: <u>15'</u> radius)																				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index worksheet: <table border="0"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x1 = <u> </u></td> </tr> <tr> <td>FACW species <u>80%</u></td> <td>x2 = <u>1.6</u></td> </tr> <tr> <td>FAC species <u>60%</u></td> <td>x3 = <u>1.8</u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x4 = <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u>1.40</u> (A)</td> <td><u>3.4</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.43</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x1 = <u> </u>	FACW species <u>80%</u>	x2 = <u>1.6</u>	FAC species <u>60%</u>	x3 = <u>1.8</u>	FACU species <u> </u>	x4 = <u> </u>	UPL species <u> </u>	x5 = <u> </u>	Column Totals: <u>1.40</u> (A)	<u>3.4</u> (B)	Prevalence Index = B/A = <u>2.43</u>	
Total % Cover of:	Multiply by:																			
OBL species <u> </u>	x1 = <u> </u>																			
FACW species <u>80%</u>	x2 = <u>1.6</u>																			
FAC species <u>60%</u>	x3 = <u>1.8</u>																			
FACU species <u> </u>	x4 = <u> </u>																			
UPL species <u> </u>	x5 = <u> </u>																			
Column Totals: <u>1.40</u> (A)	<u>3.4</u> (B)																			
Prevalence Index = B/A = <u>2.43</u>																				
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u>0%</u> = Total Cover																			
Herb Stratum (Plot size: <u>5'</u> radius)																				
1. <u>Phalaris arundinacea</u>	<u>80%</u>	<u>Yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u> </u> 1-Rapid Test for Hydrophytic Vegetation <u>X</u> 2-Dominance Test is >50% <u>X</u> 3-Prevalence Index is ≤3.0 ¹ <u> </u> 4-Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Ambrosia trifida</u>	<u>20%</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
12. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
13. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
14. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
15. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
16. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
17. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
18. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
19. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
20. <u> </u>	<u>100%</u> = Total Cover																			
Woody Vine Stratum (Plot size: <u>30'</u> radius)																				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
2. <u> </u>	<u>0%</u> = Total Cover																			

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: SP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-20	10YR 4/2	100					SiCL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
 Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required: check all that apply)		Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:			Wetland Hydrology Present?	Yes <u>X</u>	No _____
Surface Water Present?	Yes _____ No <u>X</u>	Depth (inches): _____			
Water Table Present?	Yes _____ No <u>X</u>	Depth (inches): _____			
Saturation Present?	Yes _____ No <u>X</u>	Depth (inches): _____			
(includes capillary fringe)					

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Sampling point is located on a stream terrace within the Q100 floodplain of Salamonie River. Therefore, it meets the criteria of geomorphic position (D2).

WETLAND DETERMINATION DATA FORM -- Midwest Region

Project/Site: Des 1600828 - S.R. 26 over Salamonie River City/County: Portland / Jay County Sampling Date: 8/28/2019
 Applicant/Owner: INDOT State: IN Sampling Point: SP-2
 Investigator(s): Cory Shumate and Zachary Root Section, Township, Range: Section 21, Township 23 N, Range 14 E
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None
 Slope (%): 1% Lat: 40.43249 Long: -84.96373 Datum: NAD83
 Soil Map Unit Name: Eel clay loam, frequently flooded (Ee) - Hydric (5%) NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS -- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>x</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			
Remarks: Upland Sampling Point 2. Project study area received over an inch of rain between 8/26/2019 and 8/27/2019.					

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u> radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
<u>0%</u> = Total Cover																				
Sapling/Shrub Stratum (Plot size: <u>15'</u> radius)																				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index worksheet: <table border="0"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x1 = <u> </u></td> </tr> <tr> <td>FACW species <u>80%</u></td> <td>x2 = <u>1.6</u></td> </tr> <tr> <td>FAC species <u>20%</u></td> <td>x3 = <u>0.6</u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x4 = <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u>1.00</u> (A)</td> <td><u>2.2</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.20</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x1 = <u> </u>	FACW species <u>80%</u>	x2 = <u>1.6</u>	FAC species <u>20%</u>	x3 = <u>0.6</u>	FACU species <u> </u>	x4 = <u> </u>	UPL species <u> </u>	x5 = <u> </u>	Column Totals: <u>1.00</u> (A)	<u>2.2</u> (B)	Prevalence Index = B/A = <u>2.20</u>	
Total % Cover of:	Multiply by:																			
OBL species <u> </u>	x1 = <u> </u>																			
FACW species <u>80%</u>	x2 = <u>1.6</u>																			
FAC species <u>20%</u>	x3 = <u>0.6</u>																			
FACU species <u> </u>	x4 = <u> </u>																			
UPL species <u> </u>	x5 = <u> </u>																			
Column Totals: <u>1.00</u> (A)	<u>2.2</u> (B)																			
Prevalence Index = B/A = <u>2.20</u>																				
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
<u>0%</u> = Total Cover																				
Herb Stratum (Plot size: <u>5'</u> radius)																				
1. <u>Phalaris arundinacea</u>	<u>80%</u>	<u>Yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u> </u> 1-Rapid Test for Hydrophytic Vegetation <u>X</u> 2-Dominance Test is >50% <u>X</u> 3-Prevalence Index is ≤3.0 ¹ <u> </u> 4-Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Ambrosia trifida</u>	<u>20%</u>	<u>Yes</u>	<u>FAC</u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
12. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
13. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
14. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
15. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
16. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
17. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
18. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
19. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
20. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
<u>100%</u> = Total Cover																				
Woody Vine Stratum (Plot size: <u>30'</u> radius)																				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
<u>0%</u> = Total Cover																				

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: SP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-20	10YR 4/2	100					SiCL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):		
Type: _____		
Depth (inches): _____		

Hydric Soil Present?
Yes _____ No X

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required: check all that apply)		Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations: Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? Yes _____ No <u>X</u> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
---	---

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
 Sampling point is located on a stream terrace within the Q100 floodplain of Salamonie River. Therefore, it meets the criteria of geomorphic position (D2).

WETLAND DETERMINATION DATA FORM -- Midwest Region

Project/Site: Des 1600828 - S.R. 26 over Salamonie River City/County: Portland / Jay County Sampling Date: 8/28/2019
 Applicant/Owner: INDOT State: IN Sampling Point: SP-3
 Investigator(s): Cory Shumate and Zachary Root Section, Township, Range: Section 21, Township 23 N, Range 14 E
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None
 Slope (%): 0% Lat: 40.43264 Long: -84.9637 Datum: NAD83
 Soil Map Unit Name: Eel clay loam, frequently flooded (Ee) - Hydric (5%) NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS -- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>x</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Remarks:

Upland Sampling Point 2. Project study area received over an inch of rain between 8/26/2019 and 8/27/2019.

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: <u>30'</u> radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u>0%</u>	= Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15'</u> radius)																				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index worksheet: <table border="0"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x1 = <u> </u></td> </tr> <tr> <td>FACW species <u>100%</u></td> <td>x2 = <u>2</u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x3 = <u> </u></td> </tr> <tr> <td>FACU species <u> </u></td> <td>x4 = <u> </u></td> </tr> <tr> <td>UPL species <u> </u></td> <td>x5 = <u> </u></td> </tr> <tr> <td>Column Totals: <u>1.00</u> (A)</td> <td><u>2</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x1 = <u> </u>	FACW species <u>100%</u>	x2 = <u>2</u>	FAC species <u> </u>	x3 = <u> </u>	FACU species <u> </u>	x4 = <u> </u>	UPL species <u> </u>	x5 = <u> </u>	Column Totals: <u>1.00</u> (A)	<u>2</u> (B)	Prevalence Index = B/A = <u>2.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u> </u>	x1 = <u> </u>																			
FACW species <u>100%</u>	x2 = <u>2</u>																			
FAC species <u> </u>	x3 = <u> </u>																			
FACU species <u> </u>	x4 = <u> </u>																			
UPL species <u> </u>	x5 = <u> </u>																			
Column Totals: <u>1.00</u> (A)	<u>2</u> (B)																			
Prevalence Index = B/A = <u>2.00</u>																				
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
6. <u> </u>	<u>0%</u>	= Total Cover																		
Herb Stratum (Plot size: <u>5'</u> radius)																				
1. <u>Phalaris arundinacea</u>	<u>100%</u>	<u>Yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u>X</u> 1-Rapid Test for Hydrophytic Vegetation <u>X</u> 2-Dominance Test is >50% <u>X</u> 3-Prevalence Index is ≤3.0 ¹ <u> </u> 4-Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
12. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
13. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
14. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
15. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
16. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
17. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
18. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
19. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
20. <u> </u>	<u>100%</u>	= Total Cover																		
Woody Vine Stratum (Plot size: <u>30'</u> radius)																				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u>0%</u>	= Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: SP-3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-18	10YR 4/2	100					SiCL	
18-20	10YR 3/4	45	10YR 6/4	10	C	M	SiCL	Mixed Matrix; Distinct redox concentrations
	10YR 4/1	45						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):	Hydric Soil Present?	Yes	No
Type: _____			
Depth (inches): _____			

Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required: check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9)	
<input type="checkbox"/> Aquatic Fauna (B13)	
<input type="checkbox"/> True Aquatic Plants (B14)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____	
(includes capillary fringe)	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____

Remarks: _____

Sampling point is located on a stream terrace within the Q100 floodplain of Salamonie River. Therefore, it meets the criteria for geomorphic position (D2).

WETLAND DETERMINATION DATA FORM -- Midwest Region

Project/Site: Des 1600828 - S.R. 26 over Salamonie River City/County: Portland / Jay County Sampling Date: 8/28/2019
 Applicant/Owner: INDOT State: IN Sampling Point: SP-4
 Investigator(s): Cory Shumate and Zachary Root Section, Township, Range: Section 21, Township 23 N, Range 14 E
 Landform (hillslope, terrace, etc.): Toe of hillslope Local relief (concave, convex, none): Concave
 Slope (%): 5% Lat: 40.43268 Long: -84.96255 Datum: NAD83
 Soil Map Unit Name: Eel clay loam, frequently flooded (Ee) - Hydric (5%) NWI classification: None

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil No, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS -- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland?	Yes <u> </u>	No <u>x</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>			

Remarks:

Upland Sampling Point 4. Project study area received over an inch of rain between 8/26/2019 and 8/27/2019.

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)																
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u>0%</u>	= Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15' radius</u>)																				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index worksheet: <table border="0"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u> </u></td> <td>x1 = <u> </u></td> </tr> <tr> <td>FACW species <u>90%</u></td> <td>x2 = <u>1.8</u></td> </tr> <tr> <td>FAC species <u> </u></td> <td>x3 = <u> </u></td> </tr> <tr> <td>FACU species <u>20%</u></td> <td>x4 = <u>0.8</u></td> </tr> <tr> <td>UPL species <u>20%</u></td> <td>x5 = <u>1</u></td> </tr> <tr> <td>Column Totals: <u>1.30</u> (A)</td> <td><u>3.6</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.77</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> </u>	x1 = <u> </u>	FACW species <u>90%</u>	x2 = <u>1.8</u>	FAC species <u> </u>	x3 = <u> </u>	FACU species <u>20%</u>	x4 = <u>0.8</u>	UPL species <u>20%</u>	x5 = <u>1</u>	Column Totals: <u>1.30</u> (A)	<u>3.6</u> (B)	Prevalence Index = B/A = <u>2.77</u>	
Total % Cover of:	Multiply by:																			
OBL species <u> </u>	x1 = <u> </u>																			
FACW species <u>90%</u>	x2 = <u>1.8</u>																			
FAC species <u> </u>	x3 = <u> </u>																			
FACU species <u>20%</u>	x4 = <u>0.8</u>																			
UPL species <u>20%</u>	x5 = <u>1</u>																			
Column Totals: <u>1.30</u> (A)	<u>3.6</u> (B)																			
Prevalence Index = B/A = <u>2.77</u>																				
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
6. <u> </u>	<u>0%</u>	= Total Cover																		
Herb Stratum (Plot size: <u>5' radius</u>)																				
1. <u>Phalaris arundinacea</u>	<u>90%</u>	<u>Yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u>X</u> 1-Rapid Test for Hydrophytic Vegetation <u>X</u> 2-Dominance Test is >50% <u>X</u> 3-Prevalence Index is ≤3.0 ¹ <u> </u> 4-Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Cirsium arvense</u>	<u>20%</u>	<u>No</u>	<u>FACU</u>																	
3. <u>Convolvulus arvensis</u>	<u>20%</u>	<u>No</u>	<u>UPL</u>																	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
12. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
13. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
14. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
15. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
16. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
17. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
18. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
19. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
20. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
	<u>130%</u>	= Total Cover																		
Woody Vine Stratum (Plot size: <u>30' radius</u>)																				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>																	
	<u>0%</u>	= Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: SP-4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-11	10YR 3/2	100					SiCL	
11-20	10YR 3/2	50					SiCL	Mixed Matrix
	10YR 4/2	50						Mixed Matrix

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:	Indicators for Problematic Hydric Soils ³ :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):	Hydric Soil Present?	Yes	No
Type: _____			
Depth (inches): _____			

Remarks: _____

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one is required: check all that apply)	Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	
<input type="checkbox"/> Water-Stained Leaves (B9)	
<input type="checkbox"/> Aquatic Fauna (B13)	
<input type="checkbox"/> True Aquatic Plants (B14)	
<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	
<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	
<input type="checkbox"/> Presence of Reduced Iron (C4)	
<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	
<input type="checkbox"/> Thin Muck Surface (C7)	
<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Other (Explain in Remarks)	

Field Observations:	Wetland Hydrology Present?	Yes	No
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____			
Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____			
Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____			
(includes capillary fringe)			

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____

Remarks: _____

Sampling point met the criteria for geomorphic position (D2) due to its location at the toe of a hillslope within a roadside ditch.

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: April 2, 2020

B. NAME AND ADDRESS OF PERSON REQUESTING PJD:

Cory Shumate
Metric Environmental, LLC
6971 Hillsdale Court
Indianapolis, IN 46250
(317) 350-4896
corys@metricenv.com

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

The proposed project (Des. No. 1600828) includes the replacement of the existing bridge (Bridge No. 026-38-03430 A/NIBI No. 007040), which carries S.R. 26 over Salamonie River in Wayne Township, Jay County, Indiana. The existing structure is 150 ft. long span with 28 ft clear roadway width curb-to-curb. The proposed improvements include the installation of a two-lane bridge that is 3-span with 30-ft. clear roadway width, subject to change upon further project design.

(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: IN County/parish/borough: Jay County City: Portland
Center coordinates of site (lat/long in degree decimal format):
Lat.: 40.43258°
Long.: -84.96348°
Universal Transverse Mercator: 16 S 672740.68 E 4477762.64 N
Name of nearest waterbody: Salamonie River

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☐ Office (Desk) Determination. Date:

☐ Field Determination. Date(s):

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH “MAY BE” SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource “may be” subject (i.e., Section 404 or Section 10/404)
UNT 1	40.43258	-84.96353	200 LFT	Non-wetland waters	Section 404
Open Water 1	40.43281	-84.96376	0.037 acre	Non-wetland Waters	Section 404

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "*may be*" waters of the U.S. and/or that there "*may be*" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:


SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- ☒ Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:
☒ Map: _____ Dated 8/5/2019, 8/26/2019, and 9/3/2019
Data sheets prepared/submitted by or on behalf of the PJD requestor.
☐ Office concurs with data sheets/delineation report.
☐ Office does not concur with data sheets/delineation report. Rationale: _____
- ☐ Data sheets prepared by the Corps: _____
- ☐ Corps navigable waters' study: _____
- ☐ U.S. Geological Survey Hydrologic Atlas: _____
☒ USGS NHD data.
☒ USGS 8 and 12 digit HUC maps.
- ☒ U.S. Geological Survey map(s). Cite scale & quad name: Portland, IN 7.5 min, 1996
- ☒ Natural Resources Conservation Service Soil Survey. Citation: SSURGO Jay County
- ☒ National wetlands inventory map(s). Cite name: http://www.fws.gov/wetlands/
- ☐ State/local wetland inventory map(s): _____
- ☒ FEMA/FIRM maps: ; Effective _____
- ☐ 100-year Floodplain Elevation is: _____ (National Geodetic Vertical Datum of 1929)
- ☒ Photographs: ☒ Aerial (Name & Date): Indiana Aerial Photograph, 2017
or ☒ Other (Name & Date): Site Photographs, 8/28/2019
- ☐ Previous determination(s). File no. and date of response letter: _____
- ☐ Other information (please specify): _____

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Signature and date of
Regulatory staff member
completing PJD

 4/2/2020

Signature and date of
person requesting PJD
(REQUIRED, unless obtaining
the signature is impracticable)¹

¹ Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

Appendix G Public Involvement
(This appendix will be updated after the public
involvement process is complete)



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Land & Aerial Survey Office
Division of Materials & Tests Building
120 South Shortridge Road
Indianapolis, Indiana 46219-6705

PHONE: (317) 610-7251
FAX: (317) 356-9351

Eric J. Holcomb, Governor
Joe McGuinness, Commissioner

December 4, 2017

EXAMPLE

NOTICE OF SURVEY

Dear Property Owner:

USI Consultants, under contract with The Indiana Department of Transportation (INDOT), will perform a survey for the proposed **Bridge Study** project on **SR26 Bridge over Salamonie River**, Des No. **1600828**, in **Jay County, Indiana**. A portion of this survey work may be performed on your property in order to provide design engineers information for project design. The survey work will include mapping the location of features such as trees, buildings, fences, drives, ground elevations, etc. The survey is needed for the proper planning and design of this highway project.

At this stage we generally do not know what effect, if any, our project may eventually have on your property. If we determine later that your property is involved, we will contact you with additional information.

Indiana Code 8-23-7-26 allows USI Consultants, as the authorized employees of INDOT, *Right of Entry* to the project site (including private property) upon proper notification. A copy of a Notice of Survey discussion sheet, as found on INDOT's website (<http://www.in.gov/indot/2888.htm>), is attached to this letter. Pursuant to Indiana Code 8-23-7-27, this letter serves as written notification that we will be performing the above noted survey in the vicinity of your property after **December 4, 2017**.

USI Consultants employees will show you their identification, if you are available, before coming onto your property.

If you own but are not the tenant of this property (i.e. rental, sharecrop), please inform us so that we may also contact the actual tenant of the property prior to commencement of our work. If you have any questions or concerns regarding our proposed survey work or schedule, please contact the USI Consultants Survey Manager. This contact information is as follows:

Mark A. Schepers
8415 E. 56th St.
Indianapolis, IN 46216
317-544-4996



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Land & Aerial Survey Office
Division of Materials & Tests Building
120 South Shortridge Road
Indianapolis, Indiana 46219-6705

PHONE: (317) 610-7251
FAX: (317) 356-9351

Eric J. Holcomb, Governor
Joe McGuinness, Commissioner

Under Indiana Code 8-23-7-28, you have a right to compensation for any damage that occurs to your land or water as a result of the entry or work performed during the entry. To obtain such compensation, you should contact the [Central Office](#) District Real Estate Manager; contact information is below. The District Real Estate Manager can provide you with a form to request compensation for damages. Once you fill out this form, you can return it to the District Real Estate Manager for consideration. If you are not satisfied with the compensation that INDOT determines is owed to you, Indiana Code 8-23-7-28 provides the following:

The amount of damages shall be assessed by the county agricultural extension educator of the county in which the land or water is located and two (2) disinterested residents of the county, one (1) appointed by the aggrieved party and one (1) appointed by the department. A written report of the assessment of damages shall be mailed to the aggrieved party and the department by first class United States mail. If either the department or the aggrieved party is not satisfied with the assessment of damages, either or both may file a petition, not later than fifteen (15) days after receiving the report, in the circuit or superior court of the county in which the land or water is located.

If you have questions regarding the rights and procedures outlined in this letter, please contact the [Greenfield](#) Real Estate Manager. This contact information is as follows:

[Josh Betz](#)
32 S. Broadway St.
Greenfield, IN 46140
317-467-3402

Thank you in advance for your cooperation in this matter.

Sincerely,

Mark A. Schepers
Survey Operations Manager